

b biochem biosci medicinal chemistry biotech  
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Set Items Description

? e au=shone, cliff?

Ref	Items	Index-term
E1	4	AU=SHONE, CC*
E2	2	AU=SHONE, CHARLES CLIFFORD
E3	0	*AU=SHONE, CLIF?
E4	1	AU=SHONE, CLIFF
E5	2	AU=SHONE, CLIFF C.
E6	13	AU=SHONE, CLIFFORD
E7	19	AU=SHONE, CLIFFORD C
E8	9	AU=SHONE, CLIFFORD C (ED)
E9	57	AU=SHONE, CLIFFORD C.
E10	1	AU=SHONE, CLIFFORD C. (ED)
E11	20	AU=SHONE, CLIFFORD CHARLES
E12	2	AU=SHONE, D.

Enter P or PAGE for more

? s e1-e12

4	AU=SHONE, CC*
2	AU=SHONE, CHARLES CLIFFORD
0	AU=SHONE, CLIF?
1	AU=SHONE, CLIFF
2	AU=SHONE, CLIFF C.
13	AU=SHONE, CLIFFORD
19	AU=SHONE, CLIFFORD C
9	AU=SHONE, CLIFFORD C (ED)
57	AU=SHONE, CLIFFORD C.
1	AU=SHONE, CLIFFORD C. (ED)
20	AU=SHONE, CLIFFORD CHARLES
2	AU=SHONE, D.

S1 129 E1-E12

? s s1 and clostr? and neurotoxin

129	S1
308461	CLOSTR?
132916	NEUROTOXIN
S2 32	S1 AND CLOSTR? AND NEUROTOXIN

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S3 29 RD (unique items)

? t s3/3, k/1-20

>>>KW C option is not available in file(s): 399

3/3, K/1 (Item 1 from file: 24)

DIALOG(R) File 24: CSA Life Sciences Abstracts

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0004000376 IP ACCESSION NO: 11343056

Retargeted clostridial endopeptidases: Inhibition of nociceptive neurotransmitter release in vitro, and antinociceptive activity in in vivo models of pain

Chaddock, John A; Purkiss, John R; Alexander, Frances C G; Doward, Sarah  
; Fooks, Sarah J; Friis, Lorna M; Hall, Yper H J; Kirby, Elizabeth R;

10527411singlechainpolypeptide.txt

Leeds, Nicola; Mulsdale, Hilary J; Dickenson, Anthony; Green, G Mark;  
Rahman, Wahida; Suzuki, Rie; Duggan, Michael J; Quinn, Conrad P;  
Shone, Clifford C; Foster, Keith A  
Health Protection Agency, Porton Down, Salisbury, Wiltshire, United  
Kingdom [mailto:john.chaddock@pa.org.uk]

Movement Disorders, v 19, n S8, p S42-S47, March, 2004  
PUBLICATION DATE: 2004

PUBLISHER: Wiley-Blackwell, 111 River Street Hoboken NJ 07030-5774 USA

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0885-3185  
FILE SEGMENT: CSA Neurosciences Abstracts

Retargeted clostridial endopeptidases: Inhibition of nociceptive  
neurotransmitter release in vitro, and antinociceptive activity in in vivo  
models...

... Dickenson, Anthony; Green, G Mark; Rahman, Wahida; Suzuki, Rie;  
Duggan, Michael J; Quinn, Conrad P; Shone, Clifford C; Foster,  
Keith A

ABSTRACT:

Clostridial neurotoxins potently and specifically inhibit  
neurotransmitter release in defined cell types. Previously reported data  
have demonstrated that the catalytically active LHN endopeptidase fragment  
of botulinum neurotoxin type A (termed LHN/A) can be retargeted to a  
range of cell types in...

...by the conjugate in vitro is also assessed and is comparable to that  
observed with Clostridium botulinum neurotoxin. Selectivity of  
targeting and therapeutic potential have been confirmed by in vivo  
electrophysiology studies. Furthermore...

...extended duration effects observed. These data provide proof of  
principle for the concept of retargeted clostridial endopeptidases as  
novel analgesics.

... DESCRIPTORS: processing; Electrophysiology; Lectins; Movement  
disorders; Neurons; Neurotoxins; Neurotransmitter release; Pain  
perception; Secretion; Sensory neurons; endopeptidase;  
Clostridium botulinum; Erythrina; Escherichia coli

3/3, K/2 (Item 2 from file: 24)  
DI ALOG(R) File 24: CSA Life Sciences Abstracts  
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0001644038 IP ACCESSION NO: 3947840  
Development of novel assays for botulinum type A and B neurotoxins based on  
their endopeptidase activities

Hallis, B; James, BAF; Shone, CC\*  
Protein Toxins Sect., CAMR, Porton Down, Salisbury, Wiltshire SP4 0JG UK

Journal of Clinical Microbiology, v 34, n 8, p 1934-1938, 1996  
ADDL. SOURCE INFO: Journal of Clinical Microbiology [J. CLIN. MICROBIOL.],  
vol. 34, no. 8, pp. 1934-1938, 1996  
PUBLICATION DATE: 1996

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0095-1137  
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Industrial & Applied Microbiology Abstracts (Microbiology A); CSA Neurosciences Abstracts  
Hallis, B; James, BAF; Shone, CC\*

ABSTRACT:

... A and B toxins. An assay system developed for the detection of botulinum type B neurotoxin (BoNT/B) is based on the cleavage of a synthetic peptide substrate representing amino acid...

...product. The developed assay was specific to BoNT/B, showing no cross-reactivity with other clostridial neurotoxins, and had a sensitivity for BoNT/B of 0.6 to 4.5 ng...

DESCRIPTORS: enzyme immunoassay; botulism; Clostridium botulinum  
IDENTIFIERS: neurotoxin A; neurotoxin B; endopeptidase;  
botulin toxins

3/3, K/3 (Item 3 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
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0001638201 IP ACCESSION NO: 3940164  
Substrate residues N-terminal to the cleavage site of botulinum type B neurotoxin play a role in determining the specificity of its endopeptidase activity

Wctome, M; Rossetto, O; Montecucco, C; Shone, CC\*  
Cent. for Applied Microbiol. and Res., Porton Down, Salisbury, Wiltshire  
SP4 0JG, UK

FEBS Letters, v 386, n 2-3, p 133-136, 1996  
ADDL. SOURCE INFO: FEBS Letters [FEBS LETT.], vol. 386, no. 2-3, pp.  
133-136, 1996  
PUBLICATION DATE: 1996

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0014-5793  
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Toxicology Abstracts; CSA Neurosciences Abstracts  
Substrate residues N-terminal to the cleavage site of botulinum type B neurotoxin play a role in determining the specificity of its endopeptidase activity

Wctome, M; Rossetto, O; Montecucco, C; Shone, CC\*

ABSTRACT:

Clostridium botulinum type B neurotoxin is a highly specific zinc-endopeptidase which cleaves vesicle-associated membrane protein (VAMP/synaptobrevin), a...

10527411singlechainpolypeptide.txt

... substrate recognition. Two aspartate residues in this region are identified as critical determinants of the neurotoxin's specificity. These findings are discussed in relation to the mechanism by which botulinum type B neurotoxin cleaves its substrate.

DESCRIPTORS: neurotoxins; specificity; cleavage; botulism;  
Clostridium botulinum

3/3, K/4 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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152185609 CA: 152(9)185609d PATENT

Fusion proteins of Clostridial neurotoxin functional domains and their uses

INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK,

ASSIGNEE: Syntaxin Limited; The Health Protection Agency

PATENT: U.S. Pat. Appl. Publ.; US 20100022751 A1 DATE: 20100128

APPLICATION: US 2009369341 (20090211) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 2002241596 (20020912) \*US 2007717713 (20070314) \*US 2008174896 (20080717)

PAGES: 48pp., Cont.-in-part of Ser. No. US 2008-174896. Abandoned

CODEN: USXXCO LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 530350000

IPCR 8 + Level Value Position Status Version Action Source Office:

C07K-0014/33 A I F B 20060101 20100128 H US

C07H-0021/04 A I L B 20060101 20100128 H US

C12P-0021/00 A I L B 20060101 20100128 H US

3/3, K/5 (Item 2 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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151171165 CA: 151(8)171165y PATENT

Vaccine composition comprising modified botulinum neurotoxin serotype E (BoNT/E) peptides with improved solubility

INVENTOR(AUTHOR): Shone, Clifford

LOCATION: UK,

ASSIGNEE: Health Protection Agency; Emergent Biosolutions, Inc.

PATENT: Britain UK Pat. Appl.; GB 2456549 A DATE: 20090722

APPLICATION: GB 2008927 (20080118)

PAGES: 55pp. CODEN: BAXXDU LANGUAGE: English

PATENT CLASSIFICATIONS:

IPCR 8 + Level Value Position Status Version Action Source Office:

A61K-0039/08 A I F B 20060101 H GB

A61P-0031/04 A I L B 20060101 H GB

C07K-0014/33 A I L B 20060101 H GB

C12N-0015/31 A I L B 20060101 H GB

3/3, K/6 (Item 3 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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150445612 CA: 150(21)445612g PATENT

Vaccine compositions comprising Clostridium botulinum neurotoxin BoNT/E

10527411singlechainpolypeptide.txt

mutants with improved solubility for cross protection against multiple BoNT subtypes

INVENTOR(AUTHOR): Shone, Clifford

LOCATION: UK,

ASSIGNEE: Health Protection Agency; Emergent Biosolutions, Inc.

PATENT: PCT International ; WO 200947571 A1 DATE: 20090416

APPLICATION: WO 2008GB50937 (20081013) \*US 2007PV960771 (20071012) \*US 2008PV6546 (20080118) \*GB 2008927 (20080118)

PAGES: 78pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/08

A I F B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

3/3, K/7 (Item 4 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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148347366 CA: 148(16)347366u PATENT

Novel agent for controlling cell activity

INVENTOR(AUTHOR): North, John Robert; Foster, Keith Alan; Quinn, Conrad Padraig; Shone, Clifford Charles

LOCATION: Can.,

PATENT: U.S. Pat. Appl. Publ. ; US 20080070278 A1 DATE: 20080320

APPLICATION: US 2007819647 (20070628) \*GB 935735 (19930319) \*WO 94GB558 (19940318) \*US 513878 (19951201) \*US 2000572431 (20000517)

PAGES: 9pp., Cont.-in-part of U. S. Ser. No. 572,431. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 435069100

IPC/8 + Level Value Position Status Version Action Source Office:

C12P-0021/04

A I F B 20060101

20080320

H US

C07H-0021/00

A I L B 20060101

20080320

H US

C07K-0014/00

A I L B 20060101

20080320

H US

C07K-0016/18

A I L B 20060101

20080320

H US

C12N-0009/00

A I L B 20060101

20080320

H US

3/3, K/8 (Item 5 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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147268110 CA: 147(13)268110g CONFERENCE PROCEEDING

Development of therapeutics based upon clostridial endopeptidase activity

AUTHOR(S): Foster, Keith A.; Chaddock, John A.

LOCATION: Syntaxis Ltd., Salisbury, UK,

JOURNAL: Treat. Toxins (Treatments from Toxins) EDITOR: Foster, Keith A. (Ed), Hambleton, Peter (Ed), Shone, Clifford C (Ed), DATE: 2007 PAGES: 195-212 CODEN: 69IYSV LANGUAGE: English PUBLISHER: CRC Press LLC, Boca Raton, Fla ISBN: 978-0-8493-2709-4

3/3, K/9 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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147023292 CA: 147(2)23292q JOURNAL

Re-engineering the target specificity of clostridial neurotoxins - a route to novel therapeutics

AUTHOR(S): Foster, Keith A.; Adams, Emily J.; Durose, Lyndsey; Cruttwell, Caroline J.; Marks, Elizabeth; Shone, Clifford C.; Chaddock, John A.; Cox, Clare L.; Heaton, Charlotte; Sutton, J. Mark; Wayne, Jonathan; Alexander, Frances C. G.; Rogers, Duncan F.

LOCATION: Centre for Emergency Preparedness &amp; Response, Health Protection Agency, Salisbury, UK, SP4 0JG

JOURNAL: Neurotoxic. Res. (Neurotoxicity Research) DATE: 2006 VOLUME: 9

NUMBER: 2,3 PAGES: 101-107 CODEN: NURRFI ISSN: 1029-8428 LANGUAGE: English PUBLISHER: F. P. Graham Publishing Co.

3/3, K/10 (Item 7 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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146498844 CA: 146(25)498844h CONFERENCE PROCEEDING

Vaccines to protect against neurotoxins

AUTHOR(S): Smith, Leonard A.; Henderson, Ian

LOCATION: Integrated Toxinology Division, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, USA

JOURNAL: Treat. Toxins (Treatments from Toxins) EDITOR: Foster, Keith A. (Ed), Hambleton, Peter (Ed), Shone, Clifford C (Ed), DATE: 2007 PAGES: 75-106 CODEN: 69LYSV LANGUAGE: English PUBLISHER: CRC Press LLC, Boca Raton, Fla ISBN: 978-0-8493-2709-4

3/3, K/11 (Item 8 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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146436465 CA: 146(22)436465b PATENT

Development of engineered Clostridium neurotoxins with improved solubilities and use in production of anti-botulism vaccine

INVENTOR(AUTHOR): Shone, Clifford C.; Crawford, James A.

LOCATION: UK

PATENT: PCT International ; WO 200744382 A2 DATE: 20070419

APPLICATION: WO 2006US38757 (20061005) \*US 2005PV724274 (20051007) \*US 2005PV742900 (20051207)

PAGES: 97pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/08 A I F B 20060101 H US

C12P-0021/06 A I L B 20060101 H US

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

3/3, K/12 (Item 9 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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146416354 CA: 146(21)416354m CONFERENCE PROCEEDING  
Inhibitors of clostridial neurotoxin proteinase activities  
AUTHOR(S): Schmidt, James J.; Foster, Keith A.  
LOCATION: Toxinology Division, U.S. Army Medical Research Institute of  
Infectious Diseases, Fort Detrick, MD, USA  
JOURNAL: Treat. Toxins (Treatments from Toxins) EDITOR: Foster, Keith A.  
(Ed), Hambleton, Peter (Ed), Shone, Clifford C (Ed), DATE: 2007 PAGES:  
107-138 CODEN: 69IYSV LANGUAGE: English PUBLISHER: CRC Press LLC, Boca  
Raton, Fla ISBN: 978-0-8493-2709-4

3/3, K/13 (Item 10 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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146310836 CA: 146(16)310836e BOOK  
Treatments from Toxins: The Therapeutic Potential of Clostridial  
Neurotoxins  
AUTHOR(S): Foster, Keith A.; Hambleton, Peter; Shone, Clifford C.;  
Editors  
LOCATION: USA  
DATE: 2007 PAGES: 297 pp. CODEN: BOOKA7 LANGUAGE: English PUBLISHER:  
(CRC Press LLC, Boca Raton, Fla.) ISBN: 978-0-8493-2709-4

3/3, K/14 (Item 11 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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143417270 CA: 143(23)417270f PATENT  
recombinant expression of clostridial neurotoxin light and heavy chain  
domain and its antibody and DNA vaccine applications  
INVENTOR(AUTHOR): Shone, Charles Clifford; Quinn, Conrad Padraig; Foster,  
Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe,  
Patrick; Wayne, Jonathan  
LOCATION: UK  
PATENT: U.S. Pat. Appl. Publ.; US 20050244435 A1 DATE: 20051103  
APPLICATION: US 200577550 (20050311) \*GB 9617671 (19960823) \*GB 9625996  
(19961213) \*US 782893 (19961227) \*WO 97/092273 (19970822) \*US 255829  
(19990223) \*US 2002241596 (20020912)  
PAGES: 45 pp., Cont.-in-part of U.S. Ser. No. 241,596. CODEN: USXXCO  
LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: 424239100; A61K-039/08A

3/3, K/15 (Item 12 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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143280836 CA: 143(16)280836y JOURNAL  
Preparation of specifically activatable endopeptidase derivatives of  
Clostridium botulinum toxins type A, B, and C and their applications  
AUTHOR(S): Sutton, J. Mark; Wayne, Jonathan; Scott-Tucker, Anthony;  
O'Brien, Susan M.; Marks, Philip M. H.; Alexander, Frances C. G.; Shone,  
Clifford C.; Chaddock, John A.  
LOCATION: Centre for Applied Microbiology and Research, Health Protection  
Agency, Wiltshire, UK, SP4 0JG  
JOURNAL: Protein Expression and Purification (Protein Expression and Purification)  
DATE: 2005 VOLUME: 40 NUMBER: 1 PAGES: 31-41 CODEN: PEXPEJ ISSN:  
1046-5928 PUBLISHER ITEM IDENTIFIER: 1046-5928(04)00232-3 LANGUAGE:

English PUBLISHER: Elsevier

3/3, K/16 (Item 13 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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140151912 CA: 140(10)151912j PATENT

Targeted delivery of therapeutic agents for nerve regeneration using heavy chain (Hc) from botulinum C1 toxin as a neuron-binding domain

INVENTOR(AUTHOR): Shone, Clifford Charles; Sutton, John Mark

LOCATION: UK

ASSIGNEE: Health Protection Agency

PATENT: PCT International ; WO 200409126 A1 DATE: 20040129

APPLICATION: WO 2003GB3082 (20030715) \*GB 200216865 (20020719)

PAGES: 67 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-047/48A; C07K-019/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

3/3, K/17 (Item 14 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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138182902 CA: 138(13)182902u JOURNAL

Expression and purification of catalytically active, non-toxic endopeptidase derivatives of Clostridium botulinum toxin type A

AUTHOR(S): Chaddock, John A.; Herbert, Michael H.; Ling, Roger J.;

Alexander, Frances C. G.; Fooks, Sarah J.; Revell, Dean F.; Quinn, Conrad P.; Shone, Clifford C.; Foster, Keith A.

LOCATION: Centre for Applied Microbiology and Research, Wiltshire, UK, SP4 0JG

JOURNAL: Protein Expression Purif. (Protein Expression and Purification)

DATE: 2002 VOLUME: 25 NUMBER: 2 PAGES: 219-228 CODEN: PEXPEJ ISSN: 1046-5928 LANGUAGE: English PUBLISHER: Elsevier Science

3/3, K/18 (Item 15 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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136395977 CA: 136(26)395977t PATENT

Clostridial toxin derivatives able to modify peripheral sensory afferent functions

INVENTOR(AUTHOR): Foster, Keith Alan; Duggan, Michael John; Shone, Clifford Charles

LOCATION: UK

ASSIGNEE: The Speywood Laboratory, Ltd.; Microbiological Research Authority

PATENT: United States ; US 6395513 B1 DATE: 20020528

APPLICATION: US 447356 (19991122) \*GB 958204 (19950421) \*WO 96GB916 (19960416) \*US 945037 (19980112)

PAGES: 18 pp., Cont.-in-part of U.S. Ser. No. 945,037. CODEN: USXXAM

LANGUAGE: English



## PATENT CLASSIFICATIONS:

CLASS: 435069300; C12N-015/62; C12N-015/09; C12P-021/00; C07K-019/00

3/3, K/19 (Item 16 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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133054741 CA: 133(5)54741a JOURNAL

Inhibition of vesicular secretion in both neuronal and nonneuronal cells by a retargeted endopeptidase derivative of Clostridium botulinum neurotoxin type A

AUTHOR(S): Chaddock, John A.; Purkiss, John R.; Friis, Lorna M.; Broadbridge, Janice D.; Duggan, Michael J.; Fooks, Sarah J.; Shone, Clifford C.; Quinn, Conrad P.; Foster, Keith A.

LOCATION: Centre for Applied Microbiology and Research, Salisbury, UK, SP4 0JG

JOURNAL: Infect. Immun. DATE: 2000 VOLUME: 68 NUMBER: 5 PAGES: 2587-2593 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER: American Society for Microbiology

3/3, K/20 (Item 17 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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131285568 CA: 131(21)285568z JOURNAL

Development of an in vitro bioassay for Clostridium botulinum type B neurotoxin in foods that is more sensitive than the mouse bioassay

AUTHOR(S): Wctome, Matthew; Newton, Kirsti; Jameson, Karen; Hallis, Bassam; Dunnigan, Paul; Mackay, Eric; Clarke, Sally; Taylor, Richard; Gaze, Joy; Foster, Keith; Shone, Clifford

LOCATION: Centre for Applied Microbiology and Research, Salisbury, UK, SP4 0JG

JOURNAL: Appl. Environ. Microbiol. DATE: 1999 VOLUME: 65 NUMBER: 9 PAGES: 3787-3792 CODEN: AEM DF ISSN: 0099-2240 LANGUAGE: English

PUBLISHER: American Society for Microbiology

? e au=foster, keith

Ref	Items	Index-term
E1	58	AU=FOSTER, KE
E2	11	AU=FOSTER, KEI R
E3	46	*AU=FOSTER, KEI TH
E4	7	AU=FOSTER, KEI TH A
E5	194	AU=FOSTER, KEI TH A.
E6	10	AU=FOSTER, KEI TH A. (ED)
E7	18	AU=FOSTER, KEI TH ALAN
E8	3	AU=FOSTER, KEI TH ALLEN
E9	2	AU=FOSTER, KEI TH D
E10	1	AU=FOSTER, KEI TH D.
E11	1	AU=FOSTER, KEI TH EDWARD ST. JOHN
E12	1	AU=FOSTER, KEI TH THOMAS

Enter P or PAGE for more

? s e1-e12

58	AU=FOSTER, KE
11	AU=FOSTER, KEI R
46	AU=FOSTER, KEI TH
7	AU=FOSTER, KEI TH A
194	AU=FOSTER, KEI TH A.
10	AU=FOSTER, KEI TH A. (ED)
18	AU=FOSTER, KEI TH ALAN
3	AU=FOSTER, KEI TH ALLEN

10527411singlechain polypeptide.txt  
 2 AU=FOSTER, KEITH D  
 1 AU=FOSTER, KEITH D.  
 1 AU=FOSTER, KEITH EDWARD ST. JOHN  
 1 AU=FOSTER, KEITH THOMAS  
 S4 349 E1-E12  
 ? s s4 and clostridial and neurotoxin  
 349 S4  
 19619 CLOSTRIDIAL  
 132916 NEUROTOXIN  
 S5 26 S4 AND CLOSTRIDIAL AND NEUROTOXIN  
 ? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S6 24 RD (unique items)  
 ? t s6/3, k/1-24  
 >>>KW C option is not available in file(s): 399

6/3, K/1 (Item 1 from file: 24)  
 DIALOG(R) File 24: CSA Life Sciences Abstracts  
 (c) 2010 CSA. All rights reserved.

0004000376 IP ACCESSION NO: 11343056  
 Retargeted clostridial endopeptidases: Inhibition of nociceptive neurotransmitter release in vitro, and antinociceptive activity in in vivo models of pain

Chaddock, John A; Purkiss, John R; Alexander, Frances C G; Doward, Sarah;  
 ; Fooks, Sarah J; Friis, Lorna M; Hall, Yper H J; Kirby, Elizabeth R;  
 Leeds, Nicola; Mouldale, Hilary J; Dickenson, Anthony; Green, G Mark;  
 Rahman, Wahida; Suzuki, Rie; Duggan, Michael J; Quinn, Conrad P; Shone,  
 Clifford C; Foster, Keith A  
 Health Protection Agency, Porton Down, Salisbury, Wiltshire, United  
 Kingdom [mailto:john.chaddock@hpa.org.uk]

Movement Disorders, v 19, n S8, p S42-S47, March, 2004  
 PUBLICATION DATE: 2004

PUBLISHER: Wiley-Blackwell, 111 River Street Hoboken NJ 07030-5774 USA

DOCUMENT TYPE: Journal Article  
 RECORD TYPE: Abstract  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English  
 ISSN: 0885-3185  
 FILE SEGMENT: CSA Neurosciences Abstracts

Retargeted clostridial endopeptidases: Inhibition of nociceptive neurotransmitter release in vitro, and antinociceptive activity in in vivo models...

...G Mark; Rahman, Wahida; Suzuki, Rie; Duggan, Michael J; Quinn,  
 Conrad P; Shone, Clifford C; Foster, Keith A

# ABSTRACT:

Clostridial neurotoxins potently and specifically inhibit neurotransmitter release in defined cell types. Previously reported data have demonstrated that the catalytically active LHN endopeptidase fragment of botulinum neurotoxin type A (termed LHN/A) can be retargeted to a

range of cell types in...

...conjugate in vitro is also assessed and is comparable to that observed with Clostridium botulinum neurotoxin. Selectivity of targeting and therapeutic potential have been confirmed by in vivo electrophysiology studies. Furthermore...

...extended duration effects observed. These data provide proof of principle for the concept of retargeted clostridial endopeptidases as novel analgesics.

6/3, K/2 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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152185609 CA: 152(9)185609d PATENT

Fusion proteins of Clostridial neurotoxin functional domains and their uses

INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK,

ASSIGNEE: Syntaxin Limited; The Health Protection Agency

PATENT: U.S. Pat. Appl. Publ. ; US 20100022751 A1 DATE: 20100128

APPLICATION: US 2009369341 (20090211) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97/02273 (19970822) \*US 255829 (19990223) \*US 2002241596 (20020912) \*US 2007717713 (20070314) \*US 2008174896 (20080717)

PAGES: 48pp., Cont.-in-part of Ser. No. US 2008-174896. Abandoned

CODEN: USXXCO LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 530350000

IPCR/8 + Level Value Position Status Version Action Source Office:

C07K-0014/33 A I F B 20060101 20100128 H US

C07H-0021/04 A I L B 20060101 20100128 H US

C12P-0021/00 A I L B 20060101 20100128 H US

6/3, K/3 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

151394978 CA: 151(18)394978s CONFERENCE PROCEEDING

Understanding botulinum neurotoxin mechanism of action and structure to enhance therapeutics and improve care

AUTHOR(S): Foster, Keith A.; Adams, Emily J.; Rogers, Duncan F.

LOCATION: Syntaxin Ltd., Abingdon, Oxon, UK,

JOURNAL: Botulinum Toxin (Botulinum Toxin) EDITOR: Jankovic, Joseph (Ed)

, DATE: 2009 PAGES: 349-359 CODEN: 69LORF LANGUAGE: English

PUBLISHER: Elsevier Inc., Philadelphia, Pa ISBN: 978-1-4160-4928-9

6/3, K/4 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

148347366 CA: 148(16)347366u PATENT

Novel agent for controlling cell activity

INVENTOR(AUTHOR): North, John Robert; Foster, Keith Alan; Quinn, Conrad Padraig; Shone, Clifford Charles

LOCATION: Can.,

PATENT: U.S. Pat. Appl. Publ. ; US 20080070278 A1 DATE: 20080320

10527411singlechainpolypeptide.txt

APPLICATION: US 2007819647 (20070628) \*GB 935735 (19930319) \*WO 94GB558  
(19940318) \*US 513878 (19951201) \*US 2000572431 (20000517)

PAGES: 9pp., Cont.-in-part of U. S. Ser. No. 572,431. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: 435069100

IPC/8 + Level Value Position Status Version Action Source Office:

C12P-0021/04	A	I	F	B	20060101	20080320	H	US
C07H-0021/00	A	I	L	B	20060101	20080320	H	US
C07K-0014/00	A	I	L	B	20060101	20080320	H	US
C07K-0016/18	A	I	L	B	20060101	20080320	H	US
C12N-0009/00	A	I	L	B	20060101	20080320	H	US

6/3, K/5 (Item 4 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

148230138 CA: 148(11)230138e PATENT

Methods and compounds for the treatment of mucus hypersecretion by  
inhibiting mucus secretion using compounds having targeting and  
translocating modified light chain of clostridial neurotoxin

INVENTOR(AUTHOR): Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock,  
John

LOCATION: UK,

ASSIGNEE: Syntaxin Ltd.

PATENT: U. S. Pat. Appl. Publ. ; US 20080032928 A1 DATE: 20080207

APPLICATION: US 2007806496 (20070531) \*GB 9818548 (19980825) \*WO 99GB2806  
(19990825) \*US 2001763669 (20010529) \*US 2003633698 (20030805) \*US

2006518213 (20060911)

PAGES: 80pp., Cont.-in-part of U. S. Ser. No. 518,213. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: 514012000

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0038/00	A	I	F	B	20060101	20080207	H	US
A61P-0011/00	A	I	L	B	20060101	20080207	H	US
C07H-0021/04	A	I	L	B	20060101	20080207	H	US
C07K-0016/00	A	I	L	B	20060101	20080207	H	US

6/3, K/6 (Item 5 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

148024474 CA: 148(2)24474h PATENT

Clostridial neurotoxin fusion proteins targeted to nociceptive sensory  
neurons for the treatment of pain

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip;  
Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATION: UK,

ASSIGNEE: Syntaxin Limited; Allergan, Inc.

PATENT: PCT International ; WO 2007138339 A2 DATE: 20071206

APPLICATION: WO 2007GB2049 (20070601) \*GB 200610867 (20060601)

PAGES: 124pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0038/48	A	I	F	B	20060101		H	EP
A61K-0039/08	A	I	L	B	20060101		H	EP
A61P-0025/04	A	I	L	B	20060101		H	EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW;  
BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;

10527411singlechainpolypeptide.txt

KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ;  
NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH  
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW  
ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;  
ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

6/3, K/7 (Item 6 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

147268110 CA: 147(13)268110g CONFERENCE PROCEEDING

Development of therapeutics based upon clostridial endopeptidase activity

AUTHOR(S): Foster, Keith A.; Chaddock, John A.

LOCATION: Syntaxis Ltd., Salisbury, UK,

JOURNAL: Treat. Toxins (Treatments from Toxins) EDITOR: Foster, Keith A.  
(Ed), Hambleton, Peter (Ed), Shone, Clifford C (Ed), DATE: 2007 PAGES:  
195-212 CODEN: 69LYSV LANGUAGE: English PUBLISHER: CRC Press LLC, Boca  
Raton, Fla ISBN: 978-0-8493-2709-4

6/3, K/8 (Item 7 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

147023292 CA: 147(2)23292q JOURNAL

Re-engineering the target specificity of clostridial neurotoxins - a  
route to novel therapeutics

AUTHOR(S): Foster, Keith A.; Adams, Emily J.; Durose, Lyndsey; Gruttwell,  
Caroline J.; Marks, Elizabeth; Shone, Clifford C.; Chaddock, John A.; Cox,  
Clare L.; Heaton, Charlotte; Sutton, J. Mark; Wayne, Jonathan; Alexander,  
Frances C. G.; Rogers, Duncan F.

LOCATION: Centre for Emergency Preparedness & Response, Health Protection  
Agency, Salisbury, UK, SP4 0JG

JOURNAL: Neurotoxic. Res. (Neurotoxicity Research) DATE: 2006 VOLUME: 9  
NUMBER: 2,3 PAGES: 101-107 CODEN: NURRFI ISSN: 1029-8428 LANGUAGE:  
English PUBLISHER: F. P. Graham Publishing Co.

6/3, K/9 (Item 8 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

146416354 CA: 146(21)416354m CONFERENCE PROCEEDING

Inhibitors of clostridial neurotoxin proteinase activities

AUTHOR(S): Schmidt, James J.; Foster, Keith A.

LOCATION: Toxinology Division, U.S. Army Medical Research Institute of  
Infectious Diseases, Fort Detrick, MD, USA

JOURNAL: Treat. Toxins (Treatments from Toxins) EDITOR: Foster, Keith A.  
(Ed), Hambleton, Peter (Ed), Shone, Clifford C (Ed), DATE: 2007 PAGES:  
107-138 CODEN: 69LYSV LANGUAGE: English PUBLISHER: CRC Press LLC, Boca  
Raton, Fla ISBN: 978-0-8493-2709-4

6/3, K/10 (Item 9 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

146310836 CA: 146(16)310836e BOOK

Treatments from Toxins: The Therapeutic Potential of Clostridial  
Neurotoxins

10527411singlechainpolypeptide.txt

AUTHOR(S): Foster, Keith A.; Hambleton, Peter; Shone, Clifford C.;  
Editors

LOCATION: USA

DATE: 2007 PAGES: 297 pp. CODEN: BOCKA7 LANGUAGE: English PUBLISHER:  
(CRC Press LLC, Boca Raton, Fla.) ISBN: 978-0-8493-2709-4

6/3, K/11 (Item 10 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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145050778 CA: 145(3)50778t PATENT

Fusion proteins comprising non-cytotoxic protease, translocation,  
protease cleavage site, and targeting moieties for the treatment of pain

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip;  
Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATION: UK

ASSIGNEE: Health Protection Agency; Allergan, Inc.

PATENT: PCT International ; WO 200659093 A2 DATE: 20060608

APPLICATION: WO 2005GB4585 (20051201) \*GB 200426394 (20041201) \*GB  
20054964 (20050310)

PAGES: 267 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0038/16 A I F B 20060101 H EP

C07K-0019/00 A I L B 20060101 H EP

C07K-0014/435 A I L B 20060101 H EP

C12N-0015/62 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;  
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH;  
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

6/3, K/12 (Item 11 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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145050777 CA: 145(3)50777s PATENT

Fusion proteins comprising non-cytotoxic protease, translocation,  
protease cleavage site, and targeting moieties for the treatment of  
diseases

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip;  
Stancombe, Patrick; Durose, Lyndsey

LOCATION: UK

ASSIGNEE: Health Protection Agency

PATENT: PCT International ; WO 200659113 A2 DATE: 20060608

APPLICATION: WO 2005GB4606 (20051201) \*GB 200426397 (20041201)

PAGES: 114 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

C07K-0014/33 A I F B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;

10527411singlechainpolypeptide.txt

TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH  
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

6/3, K/13 (Item 12 from file: 399)

DI A LOG (R) File 399: CA SEARCH (R)

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145021206 CA: 145(2)21206z PATENT

Fusion products of clostridial neurotoxins targeted to nociceptive  
sensory neurons for use as analgesics

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Penn, Charles; Aoki, K.  
Roger; Francis, Joseph; Steward, Lance

LOCATION: UK,

ASSIGNEE: Health Protection Agency; Allergan, Inc.

PATENT: PCT International ; WO 200659105 A2 DATE: 20060608

APPLICATION: WO 2005GB4598 (20051201) \*GB 200426394 (20041201) \*GB  
20054966 (20050310) \*GB 20054964 (20050310)

PAGES: 321 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR 8 + Level Value Position Status Version Action Source Office:

A61K-0038/16 A I F B 20060101 H EP

C07K-0014/00 A I L B 20060101 H EP

C07K-0019/00 A I L B 20060101 H EP

C07K-0014/435 A I L B 20060101 H EP

C12N-0015/62 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;  
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH  
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

6/3, K/14 (Item 13 from file: 399)

DI A LOG (R) File 399: CA SEARCH (R)

(c) 2010 American Chemical Society. All rts. reserv.

143417270 CA: 143(23)417270f PATENT

recombinant expression of clostridial neurotoxin light and heavy chain  
domain and its antibody and DNA vaccine applications

INVENTOR(AUTHOR): Shone, Charles Clifford; Quinn, Conrad Padraig; Foster,  
Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe,  
Patrick; Wayne, Jonathan

LOCATION: UK,

PATENT: U.S. Pat. Appl. Publ. ; US 20050244435 A1 DATE: 20051103

APPLICATION: US 200577550 (20050311) \*GB 9617671 (19960823) \*GB 9625996  
(19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829  
(19990223) \*US 2002241596 (20020912)

PAGES: 45 pp., Cont.-in-part of U.S. Ser. No. 241,596. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 424239100; A61K-039/08A

6/3, K/15 (Item 14 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

143125426 CA: 143(8)125426w JOURNAL

A new wrinkle on pain relief: re-engineering clostridial neurotoxins for analgesics

AUTHOR(S): Foster, Keith A.

LOCATION: HPA, Porton Down, Salisbury, Wiltshire, UK, SP4 0JG

JOURNAL: Drug Discovery Today (Drug Discovery Today) DATE: 2005

VOLUME: 10 NUMBER: 8 PAGES: 563-569 CODEN: DDTQFS ISSN: 1359-6446

PUBLISHER IDENTIFIER: 1359-6446(05)03389-1 LANGUAGE: English

PUBLISHER: Elsevier

6/3, K/16 (Item 15 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

141388054 CA: 141(24)388054q JOURNAL

The analgesic potential of clostridial neurotoxin derivatives

AUTHOR(S): Foster, Keith A.

LOCATION: HPA Porton Down, Wiltshire, UK, SP4 0JG

JOURNAL: Expert Opin. Invest. Drugs (Expert Opinion on Investigational Drugs) DATE: 2004 VOLUME: 13 NUMBER: 11 PAGES: 1437-1443 CODEN: EOJDER  
ISSN: 1354-3784 LANGUAGE: English PUBLISHER: Ashley Publications Ltd.

6/3, K/17 (Item 16 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

136395977 CA: 136(26)395977t PATENT

Clostridial toxin derivatives able to modify peripheral sensory afferent functions

INVENTOR(AUTHOR): Foster, Keith Alan; Duggan, Michael John; Shone, Clifford Charles

LOCATION: UK,

ASSIGNEE: The Speywood Laboratory, Ltd.; Microbiological Research Authority

PATENT: United States ; US 6395513 B1 DATE: 20020528

APPLICATION: US 447356 (19991122) \*GB 958204 (19950421) \*WO 96GB916 (19960416) \*US 945037 (19980112)

PAGES: 18 pp., Cont.-in-part of U.S. Ser. No. 945,037. CODEN: USXXAM

LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 435069300; C12N-015/62; C12N-015/09; C12P-021/00; C07K-019/00

6/3, K/18 (Item 17 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

134247267 CA: 134(18)247267e PATENT

Clostridial neurotoxin targeted conjugates for inhibition of secretion from non-neuronal cells

INVENTOR(AUTHOR): Foster, Keith Alan; Chaddock, John Andrew; Purkiss, John Robert; Quinn, Conrad Padraig

LOCATION: UK,

ASSIGNEE: Microbiological Research Authority

PATENT: PCT International ; WO 200121213 A2 DATE: 20010329

APPLICATION: WO 2000GB3669 (20000925) \*GB 9922554 (19990923)

PAGES: 63 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:



CLASS: A61K-047/48A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

6/3, K/19 (Item 18 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

133261538 CA: 133(19)261538e PATENT

Use of a lectin or lectin conjugate for modulation of C-fiber activity, and therapeutic use thereof

INVENTOR(AUTHOR): Foster, Keith Alan; Chaddock, John Andrew; Quinn, Conrad Padraig  
 LOCATION: UK,

ASSIGNEE: Microbiological Research Authority

PATENT: PCT International ; WO 200057897 A1 DATE: 20001005

APPLICATION: WO 2000GB1247 (20000331) \*GB 997429 (19990331)

PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-038/16A; A61K-047/48B; C07K-019/00B; C12N-015/29B; A61K-048/00B; A61P-025/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

6/3, K/20 (Item 19 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

132175838 CA: 132(14)175838a PATENT

Compounds inhibiting exocytosis in mucus-secreting cells or neurotransmitter release from neurons that control or direct mucus secretion for treatment of mucus hypersecretion

INVENTOR(AUTHOR): Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John Andrew  
 LOCATION: UK,

ASSIGNEE: Microbiological Research Authority

PATENT: PCT International ; WO 200010598 A2 DATE: 20000302

APPLICATION: WO 99GB2806 (19990825) \*GB 9818548 (19980825)

PAGES: 30 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AU; CA; JP; US; DESIGNATED REGIONAL: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

6/3, K/21 (Item 20 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

10527411singlechainpolypeptide.txt  
131266371 CA: 131(20)266371p CONFERENCE PROCEEDING  
Novel therapeutic agents  
AUTHOR(S): Foster, Keith A.  
LOCATION: CAMR, Salisbury, UK, SP4 0JG  
JOURNAL: Biomed. Aspects Clostridial Neurotoxins, Conf. EDITOR: Tranter,  
Howard S (Ed), DATE: 1997 PAGES: 89-91 CODEN: 67WQAB LANGUAGE: English  
MEETING DATE: 19960000 PUBLISHER: Centre for Applied Microbiology and  
Research, Salisbury, UK

6/3, K/22 (Item 1 from file: 8)  
DI ALOG(R) File 8: Ei Compendex(R)  
(c) 2010 Elsevier Eng. Info. Inc. All rts. reserv.

0015211486 E.I. COMPENDEX No: 2002407118632  
Inhibition of release of neurotransmitters from rat dorsal root ganglia  
by a novel conjugate of a Clostridium botulinum toxin A endopeptidase  
fragment and Erythrina cristagalli lectin  
Duggan, Michael J.; Quinn, Conrad P.; Chaddock, John A.; Purkiss, John R.  
; Alexander, Frances C. G.; Doward, Sarah; Fooks, Sarah J.; Friis, Lorna M.  
; Hall, Yper H. J.; Kirby, Elizabeth R.; Leeds, Nicola; Mulsdale, Hilary  
J.; Dickenson, Anthony; Green, G. Mark; Rahman, Wahida; Suzuki, Rie; Shone,  
Clifford C.; Foster, Keith A.  
Corresp. Author/Affil: Chaddock, J. A.: Ctr. for Applied  
Microbiol./Research, Porton Down, Salisbury, Wiltshire SP4 0JG, United  
Kingdom  
Corresp. Author email: john.chaddock@camr.org.uk  
Journal of Biological Chemistry ( J. Biol. Chem ) ( United States ) 2002  
, 277/38 (34846-34852)  
Publication Date: 20020920  
Publisher: American Society for Biochemistry and Molecular Biology Inc.  
CODEN: JBCHA ISSN: 0021-9258  
DOI: 10.1074/jbc.M202902200  
Document Type: Article; Journal Record Type: Abstract  
Treatment: T; (Theoretical)  
Language: English Summary Language: English  
Number of References: 34

... Mulsdale, Hilary J.; Dickenson, Anthony; Green, G. Mark; Rahman,  
Wahida; Suzuki, Rie; Shone, Clifford C.; Foster, Keith A.  
Clostridial neurotoxins potently and specifically inhibit  
neurotransmitter release in defined cell types. Here we report that a  
catalytically active derivative (termed LH SUB N/A) of the type A  
neurotoxin from Clostridium botulinum has been coupled to a lectin  
obtained from Erythrina cristagalli to form...

...the conjugate in vitro is assessed and is comparable with that observed  
with Clostridium botulinum neurotoxin. Finally, in vivo  
electrophysiology shows that these in vitro actions have biological  
relevance in that...

...the spinal cord is significantly attenuated. These data demonstrate that  
the potent endopeptidase activity of clostridial neurotoxins can be  
selectively retargeted to cells of interest and that inhibition of release  
of...

6/3, K/23 (Item 1 from file: 32)  
DI ALOG(R) File 32: METADEX  
(c) 2010 CSA. All rts. reserv.

0005035898 I P ACCESSION NO: 201004-71-1505280  
Recombinant toxin fragments

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick; Wayne,  
Jonathan

DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English  
FILE SEGMENT: Metadex

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick; Wayne,  
Jonathan

ABSTRACT:

... a single chain polypeptide comprising first and second domains,  
wherein said first domain is a clostridial neurotoxin light  
chain or a fragment or a variant thereof and is capable of cleaving one...  
...vesicle or plasma membrane associated proteins essential to exocytosis;  
and said second domain is a clostridial neurotoxin heavy chain  
H.sub.N portion or a fragment or a variant thereof, wherein said...

...its own; and wherein the second domain lacks a functional C-terminal  
part of a clostridial neurotoxin heavy chain designated H.sub.C  
thereby rendering the polypeptide incapable of binding to cell surface  
receptors that are the natural cell surface receptors to which native  
clostridial neurotoxin binds. Antibodies that bind to the  
polypeptides, and compositions comprising these antibodies, are also  
provided...

...and the DNA vaccine compositions, can be used in methods of immunising  
against, or treating, clostridial neurotoxin poisoning in a  
subject by administering to that subject a therapeutically effective amount  
of the...

6/3, K/24 (Item 1 from file: 149)  
DI ALOG(R) File 149: TGG Health&Wellness DB(SM)  
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04495799 SUPPLIER NUMBER: 208704104 (USE FORMAT 7 OR 9 FOR FULL TEXT  
)

A therapeutic toxin: designer proteins based on botulinum neurotoxin  
promise to deliver its therapeutic benefits safely. (Pharmaceuticals)

Foster, Keith  
Chemistry and Industry, 17, 21(3)  
Sept 14,  
2009

PUBLICATION FORMAT: Magazine/Journal ISSN: 0009-3068 LANGUAGE: English  
RECORD TYPE: Fulltext TARGET AUDIENCE: Trade  
WORD COUNT: 1793 LINE COUNT: 00153

A therapeutic toxin: designer proteins based on botulinum neurotoxin  
promise to deliver its therapeutic benefits safely. (Pharmaceuticals)

Foster, Keith  
Botulinum neurotoxin (BoNT) is the most lethal toxin known in  
nature, and the cause of the deadly...

...is therefore an opportunity to develop new therapeutic proteins, based  
on the pharmacology of the neurotoxin, but without the associated  
toxicity and limitations.

In nature, BoNT is produced by the Gram...

...with a number of non-toxic proteins. These associated proteins are believed to protect the neurotoxin in the harsh environment of the gut and aid its absorption. There are seven different...

...which is available commercially as Botox (Allergan), Dysport (Ipsen) and Xeomin (Merz Pharma).

The purified neurotoxin is a 150kDa di-chain protein consisting of a heavy chain (HC) of approximately 100kDa linked...

...The Scripps Research Institute. (4) Several clear domains have been identified and related to the neurotoxin's mechanism of action. (5)

The carboxy-terminal half of HC, or HC-domain, is...

...translocation pore through which the LC can pass.

The LC is the component of the neurotoxin responsible for inhibiting neurotransmitter release. It is a highly selective protease that, depending on the...

...by cleaving one or other of the SNARE proteins in the cholinergic nerve terminal, the neurotoxin inhibits synaptic vesicle fusion and thus the release of acetylcholine.

(ILLUSTRATION OMITTED)

Depending on the...

...of inhibition of neurotransmitter release that is a key feature of both botulism and clinical neurotoxin therapy.

Solving the neurotoxin structure and its relation to function, has opened up the possibility of developing recombinant proteins based on the specific pharmacology of the different neurotoxin domains, and so create therapeutic proteins that apply aspects of the neurotoxin's unique pharmacology without the toxicity.

The SNARE protein cleaving activity of the LC provides...

...neurotoxicity associated with BoNT. They do, however, retain many of the other properties of the neurotoxin, including duration of action which is a feature of the LC endopeptidase activity. This makes...

...entered clinical trials in partnership with the US company Allergan.

(ILLUSTRATION OMITTED)

In Brief

\* Botulinum neurotoxin is a recognised bioterrorism threat and it is only safe when used in low, nanogram quantities

\* New therapeutic proteins based on the neurotoxin, but without its associated toxicity, are being developed for a range of chronic diseases

\* Solving the neurotoxin structure has opened up the possibility of developing recombinant proteins based on the pharmacology of ...

...clinical development of a recombinant protein for chronic pain

Toxin delivery vehicles

Another aspect of neurotoxin biology is to use the HC as a delivery vehicle to deliver therapeutic payloads, particularly...

...Swaminathan, S. and R. C. Stevens, 'Three-dimensional protein structures of light chains of botulinum neurotoxin serotypes A, B, and E and tetanus neurotoxin', In: Foster, K. A., Hambleton, P., Shone, C. C. (eds.), Treatments from toxins, CRC Press...

...116, 153.

(8.) Foster, K. A. and J. A. Chaddock, 'Development of therapeutics based upon clostridial endopeptidase activity', In: Foster, K. A.,

10527411singl echai npol ypept i de. t xt  
 Hambl et on, P., Shone, C. C. (eds.), Treat ment s fr om t oxi ns...  
 ? e au=chaddock, j ?

Ref	Items	Index-term
E1	5	AU=CHADDOCK, J. B
E2	32	AU=CHADDOCK, J. B.
E3	0	* AU=CHADDOCK, J?
E4	19	AU=CHADDOCK, JA
E5	1	AU=CHADDOCK, JA*
E6	79	AU=CHADDOCK, JACK B.
E7	1	AU=CHADDOCK, JACK BARTLEY
E8	1	AU=CHADDOCK, JAMES D
E9	6	AU=CHADDOCK, JOEL
E10	16	AU=CHADDOCK, JOHN
E11	7	AU=CHADDOCK, JOHN A
E12	21	AU=CHADDOCK, JOHN A.

Enter P or PAGE for more

? s e1-12

>>>Term "12" in invalid position

? s e1-e12

5	AU=CHADDOCK, J. B
32	AU=CHADDOCK, J. B.
0	AU=CHADDOCK, J?
19	AU=CHADDOCK, JA
1	AU=CHADDOCK, JA*
79	AU=CHADDOCK, JACK B.
1	AU=CHADDOCK, JACK BARTLEY
1	AU=CHADDOCK, JAMES D
6	AU=CHADDOCK, JOEL
16	AU=CHADDOCK, JOHN
7	AU=CHADDOCK, JOHN A
21	AU=CHADDOCK, JOHN A.

S7 188 E1- E12

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S8 143 RD (unique items)

? s s8 and clostrid\$ and neurotoxin

143 S8

0 CLOSTRID\$

132916 NEUROTOXI N

S9 0 S8 AND CLOSTRID\$ AND NEUROTOXI N

? s s8 and clostr? and neurotoxin

143 S8

308461 CLOSTR?

132916 NEUROTOXI N

S10 19 S8 AND CLOSTR? AND NEUROTOXI N

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S11 19 RD (unique items)

? t s11/3, k/1-19

>>>KW C option is not available in file(s): 399

11/3, K/1 (Item 1 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
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0004000376 IP ACCESSION NO: 11343056  
Retargeted clostridial endopeptidases: Inhibition of nociceptive  
neurotransmitter release in vitro, and antinociceptive activity in in vivo  
models of pain

Chaddock, John A; Purkiss, John R; Alexander, Frances C G; Doward,  
Sarah; Fooks, Sarah J; Friis, Lorna M; Hall, Yper H J; Kirby, Elizabeth  
R; Leeds, Nicola; Moulds, Hilary J; Dickenson, Anthony; Green, G  
Mark; Rahman, Wahida; Suzuki, Rie; Duggan, Michael J; Quinn, Conrad P;  
Shone, Clifford C; Foster, Keith A  
Health Protection Agency, Porton Down, Salisbury, Wiltshire, United  
Kingdom [mailto:john.chaddock@hpa.org.uk]

Movement Disorders, v 19, n S8, p S42-S47, March, 2004  
PUBLICATION DATE: 2004

PUBLISHER: Wiley-Blackwell, 111 River Street Hoboken NJ 07030-5774 USA

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0885-3185  
FILE SEGMENT: CSA Neuroscience Abstracts

Retargeted clostridial endopeptidases: Inhibition of nociceptive  
neurotransmitter release in vitro, and antinociceptive activity in in vivo  
models...

Chaddock, John A; Purkiss, John R; Alexander, Frances C G; Doward,  
Sarah; Fooks, Sarah J; Friis...

ABSTRACT:

Clostridial neurotoxins potently and specifically inhibit  
neurotransmitter release in defined cell types. Previously reported data  
have demonstrated that the catalytically active LHN endopeptidase fragment  
of botulinum neurotoxin type A (termed LHN/A) can be retargeted to a  
range of cell types in...

...by the conjugate in vitro is also assessed and is comparable to that  
observed with Clostridium botulinum neurotoxin. Selectivity of  
targeting and therapeutic potential have been confirmed by in vivo  
electrophysiology studies. Furthermore...

...extended duration effects observed. These data provide proof of  
principle for the concept of retargeted clostridial endopeptidases as  
novel analgesics.

... DESCRIPTORS: processing; Electrophysiology; Lectins; Movement  
disorders; Neurons; Neurotoxins; Neurotransmitter release; Pain  
perception; Secretion; Sensory neurons; endopeptidase;  
Clostridium botulinum; Erythrina; Escherichia coli

11/3, K/2 (Item 2 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

10527411singlechainpolypeptide.txt  
0002967956 IP ACCESSION NO: 7189280  
Clostridial neurotoxins: structure-function led design of new  
therapeutics

Chaddock, JA; Marks, PMH  
Health Protection Agency, Centre for Emergency Preparedness and Response,  
Porton Down, Salisbury, Wiltshire SP4 0JG (United Kingdom),  
[mailto:john.chaddock@hpa.org.uk]

Cellular and Molecular Life Sciences, v 63, n 5, p 540-551, March 2006  
PUBLICATION DATE: 2006

DOCUMENT TYPE: Journal Article; Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 1420-682X  
FILE SEGMENT: CSA Neurosciences Abstracts

Clostridial neurotoxins: structure-function led design of new  
therapeutics

Chaddock, JA; Marks, PMH

#### ABSTRACT:

The neurotoxins produced by various species of Clostridia are the causative agents of botulism and tetanus. The ability of the toxins, specifically those of the botulinum neurotoxin family, to disrupt neurotransmission has been exploited for use in several medical indications and now represents the therapeutic option of choice in a number of cases. Clostridial neurotoxins have been discovered to have a multi-domain structure that is shared between the...

11/3, K/3 (Item 3 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0002601681 IP ACCESSION NO: 5958053  
Novel application of an in vitro technique to the detection and  
quantification of botulinum neurotoxin antibodies

Hall, YH; Chaddock, JA\*; Moulds, HJ; Kirby, ER; Alexander, FC;  
Marks, JD; Foster, KA  
Centre for Applied Microbiology and Research, Health Protection Agency  
Porton Down, Porton Down, Salisbury, Wiltshire SP4 0JG, UK,  
[mailto:john.chaddock@hpa.org.uk]

Journal of Immunological Methods, v 288, n 1-2, p 55-60, May 2004  
PUBLICATION DATE: 2004

PUBLISHER: Elsevier B. V.

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0022-1759  
FILE SEGMENT: Immunology Abstracts; Medical & Pharmaceutical Biotechnology  
Abstracts

Novel application of an in vitro technique to the detection and

10527411singlechainpolypeptide.txt  
quantification of botulinum neurotoxin antibodies

Hall, YH; Chaddock, JA\*; Mouldale, HJ; Kirby, ER; Alexander, FC;  
Marks, JD; Foster, KA

ABSTRACT:

Detection of *Clostridium botulinum* neurotoxin (BoNT)  
neutralising antibodies is currently achieved using the mouse lethality  
assay (MLA). This technique has...

DESCRIPTORS: Neurotoxins; Antibodies; Botulism; Vaccines; Serum;  
Neurons; *Clostridium botulinum*

11/3, K/4 (Item 4 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
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0002373660 IP ACCESSION NO: 5450650  
Inhibition of Release of Neurotransmitters from Rat Dorsal Root Ganglia by  
a Novel Conjugate of a *Clostridium botulinum* Toxin A Endopeptidase  
Fragment and Erythrina cristagalli Lectin

Duggan, MJ; Quinn, CP; Chaddock, JA; Purkiss, JR; Alexander, FCG;  
Doward, S; Fooks, SJ; Friis, LM; Hall, YH; Kirby, ER; Leeds, N;  
Mouldale, HJ; Dickenson, A; Green, GM; Rahman, W; Suzuki, R; Shone,  
CC; Foster, KA  
Centre for Applied Microbiology and Research, Porton Down, Salisbury,  
Wiltshire SP4 0JG, United Kingdom [mailto:john.chaddock@amr.org.uk]

Journal of Biological Chemistry, v 277, n 38, p 34846-34852, September 20,  
2002

PUBLICATION DATE: 2002

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0021-9258

FILE SEGMENT: Toxicology Abstracts; CSA Neurosciences Abstracts

...of Release of Neurotransmitters from Rat Dorsal Root Ganglia by a Novel  
Conjugate of a *Clostridium botulinum* Toxin A Endopeptidase Fragment  
and Erythrina cristagalli Lectin

Duggan, MJ; Quinn, CP; Chaddock, JA; Purkiss, JR; Alexander, FCG;  
Doward, S; Fooks, SJ; Friis, LM; Hall, YH; Kirby, ER...

ABSTRACT:

*Clostridial* neurotoxins potently and specifically inhibit  
neurotransmitter release in defined cell types. Here we report that a  
catalytically active derivative (termed LH sub(N)/A) of the type A  
neurotoxin from *Clostridium botulinum* has been coupled to a  
lectin obtained from *Erythrina cristagalli* to form a novel...

...released by the conjugate in vitro is assessed and is comparable with  
that observed with *Clostridium botulinum* neurotoxin. Finally,  
in vivo electrophysiology shows that these in vitro actions have biological  
relevance in that...

...the spinal cord is significantly attenuated. These data demonstrate that



10527411singlechainpolypeptide.txt

the potent endopeptidase activity of clostridial neurotoxins can be selectively retargeted to cells of interest and that inhibition of release of...

DESCRIPTORS: Neurotransmitter release; Dorsal root ganglia; Neurotoxins; Lectins; Conjugates; Pain; Clostridium botulinum; Erythrina cristagalli

11/3, K/5 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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152185609 CA: 152(9)185609d PATENT

Fusion proteins of Clostridial neurotoxin functional domains and their uses

INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK,

ASSIGNEE: Syntaxin Limited; The Health Protection Agency

PATENT: U.S. Pat. Appl. Publ.; US 20100022751 A1 DATE: 20100128

APPLICATION: US 2009369341 (20090211) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 2002241596 (20020912) \*US 2007717713 (20070314) \*US 2008174896 (20080717)

PAGES: 48pp., Cont.-in-part of Ser. No. US 2008-174896. Abandoned

CODEN: USXXCO LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 530350000

IPCR 8 + Level Value Position Status Version Action Source Office:

C07K-0014/33 A I F B 20060101 20100128 H US

C07H-0021/04 A I L B 20060101 20100128 H US

C12P-0021/00 A I L B 20060101 20100128 H US

11/3, K/6 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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148230138 CA: 148(11)230138e PATENT

Methods and compounds for the treatment of mucus hypersecretion by inhibiting mucus secretion using compounds having targeting and translocating modified light chain of clostridial neurotoxin

INVENTOR(AUTHOR): Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John

LOCATION: UK,

ASSIGNEE: Syntaxin Ltd.

PATENT: U.S. Pat. Appl. Publ.; US 20080032928 A1 DATE: 20080207

APPLICATION: US 2007806496 (20070531) \*GB 9818548 (19980825) \*WO 99GB2806 (19990825) \*US 2001763669 (20010529) \*US 2003633698 (20030805) \*US 2006518213 (20060911)

PAGES: 80pp., Cont.-in-part of U.S. Ser. No. 518,213. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 514012000

IPCR 8 + Level Value Position Status Version Action Source Office:

A61K-0038/00 A I F B 20060101 20080207 H US

A61P-0011/00 A I L B 20060101 20080207 H US

C07H-0021/04 A I L B 20060101 20080207 H US

C07K-0016/00 A I L B 20060101 20080207 H US

11/3, K/7 (Item 3 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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148024474 CA: 148(2)24474h PATENT

Clostridial neurotoxin fusion proteins targeted to nociceptive sensory neurons for the treatment of pain

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATION: UK

ASSIGNEE: Syntaxin Limited; Allergan, Inc.

PATENT: PCT International; WO 2007138339 A2 DATE: 20071206

APPLICATION: WO 2007GB2049 (20070601) \*GB 200610867 (20060601)

PAGES: 124pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0038/48 A I F B 20060101 H EP

A61K-0039/08 A I L B 20060101 H EP

A61P-0025/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

11/3, K/8 (Item 4 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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147268110 CA: 147(13)268110g CONFERENCE PROCEEDING

Development of therapeutics based upon clostridial endopeptidase activity

AUTHOR(S): Foster, Keith A.; Chaddock, John A.

LOCATION: Syntaxin Ltd., Salisbury, UK

JOURNAL: Treat. Toxins (Treatments from Toxins) EDITOR: Foster, Keith A. (Ed), Hambleton, Peter (Ed), Shone, Clifford C (Ed), DATE: 2007 PAGES: 195-212 CODEN: 69IYSV LANGUAGE: English PUBLISHER: CRC Press LLC, Boca Raton, Fla ISBN: 978-0-8493-2709-4

11/3, K/9 (Item 5 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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147023292 CA: 147(2)23292q JOURNAL

Re-engineering the target specificity of clostridial neurotoxins - a route to novel therapeutics

AUTHOR(S): Foster, Keith A.; Adams, Emily J.; Durose, Lyndsey; Gruttwell, Caroline J.; Marks, Elizabeth; Shone, Clifford C.; Chaddock, John A.; Cox, Clare L.; Heaton, Charlotte; Sutton, J. Mark; Wayne, Jonathan; Alexander, Frances C. G.; Rogers, Duncan F.

LOCATION: Centre for Emergency Preparedness &amp; Response, Health Protection Agency, Salisbury, UK, SP4 0JG

JOURNAL: Neurotoxic. Res. (Neurotoxicity Research) DATE: 2006 VOLUME: 9

NUMBER: 2,3 PAGES: 101-107 CODEN: NURRFI ISSN: 1029-8428 LANGUAGE: English PUBLISHER: F. P. Graham Publishing Co.

11/3, K/10 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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145050778 CA: 145(3)50778t PATENT

Fusion proteins comprising non-cytotoxic protease, translocation, protease cleavage site, and targeting moieties for the treatment of pain

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATION: UK,

ASSIGNEE: Health Protection Agency; Allergan, Inc.

PATENT: PCT International ; WO 200659093 A2 DATE: 20060608

APPLICATION: WO 2005GB4585 (20051201) \*GB 200426394 (20041201) \*GB 20054964 (20050310)

PAGES: 267 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0038/16 A I F B 20060101 H EP

C07K-0019/00 A I L B 20060101 H EP

C07K-0014/435 A I L B 20060101 H EP

C12N-0015/62 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

11/3, K/11 (Item 7 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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145050777 CA: 145(3)50777s PATENT

Fusion proteins comprising non-cytotoxic protease, translocation, protease cleavage site, and targeting moieties for the treatment of diseases

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick; Durose, Lyndsey

LOCATION: UK,

ASSIGNEE: Health Protection Agency

PATENT: PCT International ; WO 200659113 A2 DATE: 20060608

APPLICATION: WO 2005GB4606 (20051201) \*GB 200426397 (20041201)

PAGES: 114 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

C07K-0014/33 A I F B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

11/3, K/12 (Item 8 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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145021206 CA: 145(2)21206z PATENT

Fusion products of clostridial neurotoxins targeted to nociceptive sensory neurons for use as analgesics

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Penn, Charles; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATION: UK,

ASSIGNEE: Health Protection Agency; Allergan, Inc.

PATENT: PCT International ; WO 200659105 A2 DATE: 20060608

APPLICATION: WO 2005GB4598 (20051201) \*GB 200426394 (20041201) \*GB

20054966 (20050310) \*GB 20054964 (20050310)

PAGES: 321 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0038/16 A I F B 20060101 H EP

C07K-0014/00 A I L B 20060101 H EP

C07K-0019/00 A I L B 20060101 H EP

C07K-0014/435 A I L B 20060101 H EP

C12N-0015/62 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

11/3, K/13 (Item 9 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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143417270 CA: 143(23)417270f PATENT

recombinant expression of clostridial neurotoxin light and heavy chain domain and its antibody and DNA vaccine applications

INVENTOR(AUTHOR): Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK,

PATENT: U.S. Pat. Appl. Publ. ; US 20050244435 A1 DATE: 20051103

APPLICATION: US 200577550 (20050311) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 2002241596 (20020912)

PAGES: 45 pp., Cont.-in-part of U.S. Ser. No. 241,596. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 424239100; A61K-039/08A

11/3, K/14 (Item 10 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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143280836 CA: 143(16)280836y JOURNAL

Preparation of specifically activatable endopeptidase derivatives of Clostridium botulinum toxins type A, B, and C and their applications

AUTHOR(S): Sutton, J. Mark; Wayne, Jonathan; Scott-Tucker, Anthony;

10527411singlechainpolypeptide.txt

O'Brien, Susan M.; Marks, Philip M. H.; Alexander, Frances C. G.; Shone, Clifford C.; Chaddock, John A.  
LOCATION: Centre for Applied Microbiology and Research, Health Protection Agency, Wiltshire, UK, SP4 0JG  
JOURNAL: Protein Expression Purif. (Protein Expression and Purification)  
DATE: 2005 VOLUME: 40 NUMBER: 1 PAGES: 31-41 CODEN: PEXPEJ ISSN: 1046-5928 PUBLISHER ITEM IDENTIFIER: 1046-5928(04)00232-3 LANGUAGE: English PUBLISHER: Elsevier

11/3, K/15 (Item 11 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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142309938 CA: 142(17)309938a PATENT  
Re-targeted toxin conjugates  
INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Penn, Charles  
LOCATION: UK  
ASSIGNEE: Health Protection Agency  
PATENT: PCT International ; WO 200523309 A2 DATE: 20050317  
APPLICATION: WO 2004GB3904 (20040913) \*GB 200321344 (20030911)  
PAGES: 66 pp. CODEN: PIXXD2 LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: A61K-047/48A  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

11/3, K/16 (Item 12 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

138182902 CA: 138(13)182902u JOURNAL  
Expression and purification of catalytically active, non-toxic endopeptidase derivatives of Clostridium botulinum toxin type A  
AUTHOR(S): Chaddock, John A.; Herbert, Michael H.; Ling, Roger J.; Alexander, Frances C. G.; Fooks, Sarah J.; Revell, Dean F.; Quinn, Conrad P.; Shone, Clifford C.; Foster, Keith A.  
LOCATION: Centre for Applied Microbiology and Research, Wiltshire, UK, SP4 0JG  
JOURNAL: Protein Expression Purif. (Protein Expression and Purification)  
DATE: 2002 VOLUME: 25 NUMBER: 2 PAGES: 219-228 CODEN: PEXPEJ ISSN: 1046-5928 LANGUAGE: English PUBLISHER: Elsevier Science

11/3, K/17 (Item 13 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

136049455 CA: 136(4)49455t CONFERENCE PROCEEDING  
Clostridium botulinum and associated neurotoxins  
AUTHOR(S): Chaddock, John A.; Melling, Jack  
LOCATION: Centre for Applied Microbiology and Research, Salisbury, UK  
JOURNAL: Mol. Med. Microbiol. EDITOR: Sussman, Max (Ed), DATE: 2002  
VOLUME: 2, PAGES: 1141-1152 CODEN: 69CDO2 LANGUAGE: English

10527411singlechainpolypeptide.txt  
PUBLISHER: Academic Press, San Diego, Calif

11/3, K/18 (Item 14 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
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133054741 CA: 133(5)54741a JOURNAL  
Inhibition of vesicular secretion in both neuronal and nonneuronal cells  
by a retargeted endopeptidase derivative of Clostridium botulinum  
neurotoxin type A  
AUTHOR(S): Chaddock, John A.; Purkiss, John R.; Friis, Lorna M.;  
Broadbridge, Janice D.; Duggan, Michael J.; Fooks, Sarah J.; Shone,  
Clifford C.; Quinn, Conrad P.; Foster, Keith A.  
LOCATION: Centre for Applied Microbiology and Research, Salisbury, UK,  
SP4 0JG  
JOURNAL: Infect. Immun. DATE: 2000 VOLUME: 68 NUMBER: 5 PAGES:  
2587-2593 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER:  
American Society for Microbiology

11/3, K/19 (Item 1 from file: 32)  
DI ALOG(R) File 32: METADEX  
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0005035898 IP ACCESSION NO: 201004-71-1505280  
Recombinant toxin fragments

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick;  
Wayne, Jonathan

DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English  
FILE SEGMENT: Metadex

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick;  
Wayne, Jonathan

#### ABSTRACT:

... a single chain polypeptide comprising first and second domains,  
wherein said first domain is a clostridial neurotoxin light  
chain or a fragment or a variant thereof and is capable of cleaving one...  
...vesicle or plasma membrane associated proteins essential to exocytosis;  
and said second domain is a clostridial neurotoxin heavy chain  
H.sub.N portion or a fragment or a variant thereof, wherein said...

...its own; and wherein the second domain lacks a functional C-terminal  
part of a clostridial neurotoxin heavy chain designated H.sub.C  
thereby rendering the polypeptide incapable of binding to cell surface  
receptors that are the natural cell surface receptors to which native  
clostridial neurotoxin binds. Antibodies that bind to the  
polypeptides, and compositions comprising these antibodies, are also  
provided...

...and the DNA vaccine compositions, can be used in methods of immunising  
against, or treating, clostridial neurotoxin poisoning in a  
subject by administering to that subject a therapeutically effective amount  
of the...

? e au=marks, philip

Ref	Items	Index-term
E1	1	AU=MARKS, PH.
E2	2	AU=MARKS, PHI L
E3	14	*AU=MARKS, PHI LI P
E4	1	AU=MARKS, PHI LI P A.
E5	1	AU=MARKS, PHI LI P ANDRE
E6	2	AU=MARKS, PHI LI P C.
E7	1	AU=MARKS, PHI LI P CHARLES
E8	1	AU=MARKS, PHI LI P DAVI D RHODES
E9	2	AU=MARKS, PHI LI P M H.
E10	1	AU=MARKS, PHI LI P S.
E11	1	AU=MARKS, PHI LLI PA
E12	1	AU=MARKS, PI ERCE

Enter P or PAGE for more

? s e1-e10

1	AU=MARKS, PH.
2	AU=MARKS, PHI L
14	AU=MARKS, PHI LI P
1	AU=MARKS, PHI LI P A.
1	AU=MARKS, PHI LI P ANDRE
2	AU=MARKS, PHI LI P C.
1	AU=MARKS, PHI LI P CHARLES
1	AU=MARKS, PHI LI P DAVI D RHODES
2	AU=MARKS, PHI LI P M H.
1	AU=MARKS, PHI LI P S.

S12 26 E1- E10

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&gt;&gt;&gt;Duplicate detection is not supported for File 393.

&gt;&gt;&gt;Duplicate detection is not supported for File 391.

&gt;&gt;&gt;Records from unsupported files will be retained in the RD set.

S13 25 RD (unique items)

? t s13/3, k/1-25

&gt;&gt;&gt;KW C option is not available in file(s): 399

13/3, K/1 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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152185609 CA: 152(9)185609d PATENT

Fusion proteins of Clostridial neurotoxin functional domains and their uses

INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK

ASSIGNEE: Syntaxin Limited; The Health Protection Agency

PATENT: U.S. Pat. Appl. Publ. ; US 20100022751 A1 DATE: 20100128

APPLICATION: US 2009369341 (20090211) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 2002241596 (20020912) \*US 2007717713 (20070314) \*US 2008174896 (20080717)

PAGES: 48pp., Cont.-in-part of Ser. No. US 2008-174896. Abandoned

CODEN: USXXCO LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: 530350000

IPCR/8 + Level Value Position Status Version Action Source Office:

O07K-0014/33 A I F B 20060101 20100128 H US

O07H-0021/04 A I L B 20060101 20100128 H US

13/3, K/2 (Item 2 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
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152069231 CA: 152(4)69231a PATENT  
Protein and nucleotide sequences of fusion protein for suppression of neuroendocrine diseases  
INVENTOR(AUTHOR): Johnstone, Stephen; Marks, Philip; Foster, Keith  
LOCATION: UK  
ASSIGNEE: Syntaxin Limited  
PATENT: PCT International ; WO 2009150469 A2 DATE: 20091217  
APPLICATI ON: WO 2009GB50665 (20090611) \*GB 200810785 (20080612) \*GB 200810782 (20080612) \*GB 200820884 (20081114) \*GB 200820965 (20081117)  
PAGES: 161pp. CODEN: PIXXD2 LANGUAGE: English  
PATENT CLASSIFI CATIONS:  
I PCR/8 + Level Value Position Status Version Action Source Office:  
A61K-0038/00 A I F B 20060101 H EP  
A61P-0035/00 A I L B 20060101 H EP  
C07K-0014/00 A I L B 20060101 H EP  
C12N-0015/62 A I L B 20060101 H EP  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PE; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/3 (Item 3 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
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152067616 CA: 152(4)67616f PATENT  
Proteolytic inhibition of protein secretion in the treatment of cancer by limiting growth factor secretion  
INVENTOR(AUTHOR): Madec, Frederic; Lecane, Phil; Marks, Philip; Foster, Keith  
LOCATION: UK  
ASSIGNEE: Syntaxin Limited  
PATENT: PCT International ; WO 2009150470 A2 DATE: 20091217  
APPLICATI ON: WO 2009GB50666 (20090611) \*GB 200810782 (20080612) \*GB 200820965 (20081117)  
PAGES: 148pp. CODEN: PIXXD2 LANGUAGE: English  
PATENT CLASSIFI CATIONS:  
I PCR/8 + Level Value Position Status Version Action Source Office:  
A61K-0038/00 A I F B 20060101 H EP  
A61P-0035/00 A I L B 20060101 H EP  
C07K-0014/00 A I L B 20060101 H EP  
C12N-0015/62 A I L B 20060101 H EP  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PE; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;



10527411singlechainpolypeptide.txt

MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA;  
GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/4 (Item 4 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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150347204 CA: 150(17)347204f JOURNAL

Crystal structure of a catalytically active, non-toxic endopeptidase derivative of Clostridium botulinum toxin A

AUTHOR(S): Masuyer, Geoffrey; Thiagarajan, Nethaji; James, Peter L.; Marks, Philip M. H.; Chaddock, John A.; Acharya, K. Ravi

LOCATION: Department of Biology and Biochemistry, University of Bath, Bath, UK, BA2 7AY

JOURNAL: Biochem Biophys. Res. Commun. (Biochemical and Biophysical Research Communications) DATE: 2009 VOLUME: 381 NUMBER: 1 PAGES: 50-53

CODEN: BBRC9 ISSN: 0006-291X PUBLISHER ITEM IDENTIFIER: 0006-291X(09)00248-4 LANGUAGE: English PUBLISHER: Elsevier B. V.

13/3, K/5 (Item 5 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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148024474 CA: 148(2)24474h PATENT

Clostridial neurotoxin fusion proteins targeted to nociceptive sensory neurons for the treatment of pain

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATION: UK,

ASSIGNEE: Syntaxin Limited; Allergan, Inc.

PATENT: PCT International ; WO 2007138339 A2 DATE: 20071206

APPLICATION: WO 2007GB2049 (20070601) \*GB 200610867 (20060601)

PAGES: 124pp. CODEN: PIXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0038/48 A I F B 20060101 H EP

A61K-0039/08 A I L B 20060101 H EP

A61P-0025/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/6 (Item 6 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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145050778 CA: 145(3)50778t PATENT

Fusion proteins comprising non-cytotoxic protease, translocation, protease cleavage site, and targeting moieties for the treatment of pain

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATION: UK,

10527411singlechainpolypeptide.txt

ASSIGNEE: Health Protection Agency; Allergan, Inc.

PATENT: PCT International ; WO 200659093 A2 DATE: 20060608

APPLICATI ON: WO 2005GB4585 (20051201) \*GB 200426394 (20041201) \*GB  
20054964 (20050310)

PAGES: 267 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

IPC/ 8 + Level Value Position Status Version Action Source Office:

A61K-0038/16 A I F B 20060101 H EP

O07K-0019/00 A I L B 20060101 H EP

O07K-0014/435 A I L B 20060101 H EP

C12N-0015/62 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;  
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH;  
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/7 (Item 7 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

145050777 CA: 145(3)50777s PATENT

Fusion proteins comprising non-cytotoxic protease, translocation,  
protease cleavage site, and targeting moieties for the treatment of  
diseases

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip;  
Stancombe, Patrick; Durose, Lyndsey

LOCATION: UK,

ASSIGNEE: Health Protection Agency

PATENT: PCT International ; WO 200659113 A2 DATE: 20060608

APPLICATI ON: WO 2005GB4606 (20051201) \*GB 200426397 (20041201)

PAGES: 114 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

IPC/ 8 + Level Value Position Status Version Action Source Office:

O07K-0014/33 A I F B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;  
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH;  
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/8 (Item 8 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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145040289 CA: 145(3)40289v PATENT

Conjugates of galactose-binding lectins and clostridial neurotoxins as  
analgesics

INVENTOR(AUTHOR): Chaddock, John Andrew; Marks, Philip; Duggan, Michael  
John

LOCATION: UK,

10527411singlechainpolypeptide.txt

PATENT: U.S. Pat. Appl. Publ. ; US 20060121056 A1 DATE: 20060608  
APPLICATION: US 2005257500 (20051025) \*GB 9721189 (19971008) \*WO 98GB3001  
(19981007) \*US 2000529130 (20000622)  
PAGES: 103 pp., Cont.-in-part of U.S. Ser. No. 529,130. CODEN: USXXCO  
LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: 424239100  
IPC/8 + Level Value Position Status Version Action Source Office:  
A61K-0039/08 A I F B 20060101 20060608 H US  
C07K-0014/415 A I L B 20060101 20060608 H US

13/3, K/9 (Item 9 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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143417270 CA: 143(23)417270f PATENT  
recombinant expression of clostridial neurotoxin light and heavy chain  
domain and its antibody and DNA vaccine applications  
INVENTOR(AUTHOR): Shone, Charles Clifford; Quinn, Conrad Padraig; Foster,  
Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe,  
Patrick; Wayne, Jonathan  
LOCATION: UK,  
PATENT: U.S. Pat. Appl. Publ. ; US 20050244435 A1 DATE: 20051103  
APPLICATION: US 200577550 (20050311) \*GB 9617671 (19960823) \*GB 9625996  
(19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829  
(19990223) \*US 2002241596 (20020912)  
PAGES: 45 pp., Cont.-in-part of U.S. Ser. No. 241,596. CODEN: USXXCO  
LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: 424239100; A61K-039/08A

13/3, K/10 (Item 10 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

143280836 CA: 143(16)280836y JOURNAL  
Preparation of specifically activatable endopeptidase derivatives of  
Clostridium botulinum toxins type A, B, and C and their applications  
AUTHOR(S): Sutton, J. Mark; Wayne, Jonathan; Scott-Tucker, Anthony;  
O'Brien, Susan M.; Marks, Philip M. H.; Alexander, Frances C. G.; Shone,  
Clifford C.; Chaddock, John A.  
LOCATION: Centre for Applied Microbiology and Research, Health Protection  
Agency, Wiltshire, UK, SP4 0JG  
JOURNAL: Protein Expression Purif. (Protein Expression and Purification)  
DATE: 2005 VOLUME: 40 NUMBER: 1 PAGES: 31-41 CODEN: PEXPEJ ISSN:  
1046-5928 PUBLISHER ITEM IDENTIFIER: 1046-5928(04)00232-3 LANGUAGE:  
English PUBLISHER: Elsevier

13/3, K/11 (Item 11 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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142171959 CA: 142(10)171959z JOURNAL  
A novel strategy for the expression and purification of the DNA  
methyltransferase, M AhdI  
AUTHOR(S): Marks, Phil; McGeehan, John; Kneale, Geoff  
LOCATION: Institute of Biomedical and Biomolecular Sciences, Biophysics  
Laboratories, University of Portsmouth, Portsmouth, UK, PO1 2DT  
JOURNAL: Protein Expression Purif. (Protein Expression and Purification)  
DATE: 2004 VOLUME: 37 NUMBER: 1 PAGES: 236-242 CODEN: PEXPEJ ISSN:

1046-5928 PUBLISHER ITEM IDENTIFIER: 1046-5928(04)00194-9 LANGUAGE:  
English PUBLISHER: Elsevier

13/3, K/12 (Item 12 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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139207733 CA: 139(14)207733a PATENT

Construction of recombinant single-chain toxins for use in vaccines and toxin assays

INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK

ASSIGNEE: Microbiological Research Authority; Speywood Laboratory Limited

PATENT: U.S. Pat. Appl. Publ.; US 20030166238 A1 DATE: 20030904

APPLICATION: US 241596 (20020912) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 242689 (19990223)

PAGES: 37 pp., Cont.-in-part of U.S. Ser. No. 255,829. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 435219000; C12N-009/50A; C07H-021/04B; C12P-021/04B; C12N-001/21B; C07K-014/33B

13/3, K/13 (Item 13 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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139175659 CA: 139(12)175659n JOURNAL

Purification and characterization of a novel DNA methyltransferase, M AhdI

AUTHOR(S): Marks, Phil; McGeehan, John; Wilson, Geoff; Errington, Neil; Kneale, Geoff

LOCATION: Institute of Biomedical and Biomolecular Sciences, Biophysics Laboratories, University of Portsmouth, Portsmouth, UK, PO1 2DT

JOURNAL: Nucleic Acids Res. (Nucleic Acids Research) DATE: 2003

VOLUME: 31 NUMBER: 11 PAGES: 2803-2810 CODEN: NARHAD ISSN: 0305-1048

LANGUAGE: English PUBLISHER: Oxford University Press

13/3, K/14 (Item 14 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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89100138 CA: 89(13)100138g JOURNAL

Chlorimipramine inhibition of muricide: the role of the ascending 5-HT projection

AUTHOR(S): Marks, Philip C.; O'Brien, Mick; Paxinos, George

LOCATION: Sch. Psychol., Univ. New South Wales, Kensington, Aust.

JOURNAL: Brain Res. DATE: 1978 VOLUME: 149 NUMBER: 1 PAGES: 270-3

CODEN: BRREAP ISSN: 0006-8993 LANGUAGE: English

13/3, K/15 (Item 15 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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88045640 CA: 88(7)45640s JOURNAL

5,7-DHT-induced muricide: inhibition as a result of preoperative exposure of rats to mice

10527411singlechainpolypeptide.txt

AUTHOR(S): Marks, Philip C.; O'Brien, Mick; Paxinos, George  
LOCATION: Sch. Psychol., Univ. New South Wales, Kensington, Aust.  
JOURNAL: Brain Res. DATE: 1977 VOLUME: 135 NUMBER: 2 PAGES: 383-8  
CODEN: BRREAP LANGUAGE: English

13/3, K/16 (Item 16 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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68113306 CA: 68(25)113306b JOURNAL

Personality structure as the main determinant of drug-induced (model) psychoses

AUTHOR(S): Fischer, Roland; Marks, Philip A.; Hill, Richard Mather; Rockey, Marsha A.

LOCATION: Sch. of Med., Ohio State Univ., Columbus, Ohio

JOURNAL: Nature (London) DATE: 1968 VOLUME: 218 NUMBER: 5138 PAGES: 296-8  
CODEN: NATUAS LANGUAGE: English

13/3, K/17 (Item 1 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online

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883537 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L.  
THE INVOLVEMENT OF 5-HYDROXYTRYPTAMINE IN MURICIDE, INTERMALE FIGHTING,  
AND IRRITABILITY IN THE MALE RAT

Author: MARKS, PHILIP CHARLES

Degree: PH.D.

Year: 1983

Corporate Source/Institution: UNIVERSITY OF NEW SOUTH WALES (AUSTRALIA)  
(0423)

Source: VOLUME 46/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1364.

Author: MARKS, PHILIP CHARLES

13/3, K/18 (Item 2 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online

(c) 2010 ProQuest Info&Learning. All rights reserved.

222726 ORDER NO: AAD59-06032

THE VALIDITY OF THE DIAGNOSTIC PROCESS IN A CHILD GUIDANCE SETTING: A  
MULTIDISCIPLINARY APPROACH.

Author: MARKS, PHILIP ANDRE

Degree: PH.D.

Year: 1959

Corporate Source/Institution: UNIVERSITY OF MINNESOTA (0130)

Source: VOLUME 20/06 OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 2387. 353 PAGES

Author: MARKS, PHILIP ANDRE

13/3, K/19 (Item 1 from file: 91)

DIALOG(R) File 91: MANTIS(TM)

2001 (c) Action Potential. All rights reserved.

00039986

Arthroscopic Release for Chronic, Refractory Adhesive Capsulitis of the  
Shoulder

WARNER, JJ.; ALLEN, A.; MARKS, PH.; WONG, P.;

Page 37

THE JOURNAL OF BONE AND JOINT SURGERY. December 1996 (19961200), Vol  
78-A, pp 1808-16  
ISSN: 0021-9355

WARNER, JJ.; ALLEN, A.; MARKS, PH.; WONG, P.;

13/3, K/20 (Item 1 from file: 8)  
DI ALOG(R) File 8: Ei Compendex(R)  
(c) 2010 Elsevier Eng. Info. Inc. All rts. reserv.

0012173432 E.I. COMPENDEX No: 1988030037551  
PROPOSED EXTENSION OF THE TEMA TUBESHEET DESIGN METHOD TO DETERMINE  
TUBESHEET RIM THICKNESS.  
Singh, Krishna P.; Marks, Philip  
Corresp. Author/Affil: Singh, Krishna P.: Holtec Int, Mount Laurel, NJ,  
USA, Holtec Int, Mount Laurel, NJ, USA  
Heat Transfer Engineering ( Heat Transfer Eng ) 1987, 8/3 (50-57)  
Publication Date: 19871201  
CODEN: HTEND ISSN: 0145-7632  
Document Type: Article; Journal Record Type: Abstract  
Treatment: X; (Experimental)  
Language: English Summary Language: English  
Number of References: 4

Singh, Krishna P.; Marks, Philip

13/3, K/21 (Item 2 from file: 8)  
DI ALOG(R) File 8: Ei Compendex(R)  
(c) 2010 Elsevier Eng. Info. Inc. All rts. reserv.

0011893681 E.I. COMPENDEX No: 1986100163495  
PILOT'S ASSOCIATE DEMONSTRATION ONE: A LOOK INSIDE.  
Shel nutt, Jack B.; Stenerson, Richard O.; Nelson, Philip C.; Marks,  
Philip S.  
Corresp. Author/Affil: Shel nutt, Jack B.: Boeing Military Airplane Co,  
USA, Boeing Military Airplane Co, USA  
Conference Title: Proceedings of the IEEE 1986 National Aerospace and  
Electronics Conference, NAECON 1986.  
Conference Location: Dayton, OH, USA  
E.I. Conference No.: 8408  
IEEE Proceedings of the National Aerospace and Electronics Conference ( )  
IEEE Proceedings of the National Aerospace and Electronics Conference 1986.  
1986, IEEE 86CH2307-7, (1184-1189)  
Publication Date: 19860101  
Publisher: IEEE  
CODEN: NASEA  
Document Type: Conference Paper; Conference Proceeding Record Type:  
Abstract  
Language: English Summary Language: English

Shel nutt, Jack B.; Stenerson, Richard O.; Nelson, Philip C.; Marks,  
Philip S.

13/3, K/22 (Item 3 from file: 8)  
DI ALOG(R) File 8: Ei Compendex(R)  
(c) 2010 Elsevier Eng. Info. Inc. All rts. reserv.

0010910959 E.I. COMPENDEX No: 1981050002269  
LOW LEVEL VISION USING AN ARRAY PROCESSOR.  
Marks, Philip

10527411singlechainpolyptide.txt

Corresp. Author/Affil: Marks, Philip  
Computer graphics and image processing ( Comput Graphics Image Process )  
1980, 14/3 (281-292)  
Publication Date: 19801201  
CODEN: CGIPB ISSN: 0146-664X  
Document Type: Journal Record Type: Abstract  
Language: Unspecified Summary Language: English  
Number of References: 19

Marks, Philip  
Corresp. Author/Affil: Marks, Philip

13/3, K/23 (Item 1 from file: 32)  
DI ALOG(R) File 32: METADEX  
(c) 2010 CSA. All rts. reserv.

0005035898 IP ACCESSI ON NO: 201004-71-1505280  
Recombinant toxin fragments

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick;  
Wayne, Jonathan

DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English  
FILE SEGMENT: Metadex

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick;  
Wayne, Jonathan

13/3, K/24 (Item 2 from file: 32)  
DI ALOG(R) File 32: METADEX  
(c) 2010 CSA. All rts. reserv.

0004951167 IP ACCESSI ON NO: 201003-71-1437202  
Fusion proteins

Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick;  
Aoki, Kei Roger; Francis, Joseph; Steward, Lance

, USA

DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English  
FILE SEGMENT: Metadex

Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick;  
Aoki, Kei Roger; Francis, Joseph; Steward, Lance

13/3, K/25 (Item 3 from file: 32)  
DI ALOG(R) File 32: METADEX  
(c) 2010 CSA. All rts. reserv.

0004405186 IP ACCESSI ON NO: 200904-71-0915140  
Microphone Testing Apparatus

Houlgate, Henry John; Marks, Philip David Rhodes

, Canada

PUBLISHER URL:

http://patent.s.i.c.gc.ca/cipo/cpd/en/patent/0439033/summary.html

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

FILE SEGMENT: Metadex

Houlgate, Henry John; Marks, Philip David Rhodes

? e au=stancombe, patrick

Ref	Items	Index-term
E1	4	AU=STANCOMBE, P.
E2	2	AU=STANCOMBE, P. R.
E3	10	*AU=STANCOMBE, PATRICK
E4	1	AU=STANCOMBE, PATRICK R.
E5	2	AU=STANCOMBE, R.
E6	2	AU=STANCOMBE, R.
E7	2	AU=STANCOMBE, S.
E8	3	AU=STANCOMBE, TODD S.
E9	1	AU=STANCOMPIANO, P. A.
E10	1	AU=STANCON, ALEXEI
E11	2	AU=STANCOT, J.
E12	1	AU=STANCOTO, LOUIS F.

Enter P or PAGE for more

? s e1-e4

4	AU=STANCOMBE, P.
2	AU=STANCOMBE, P. R.
10	AU=STANCOMBE, PATRICK
1	AU=STANCOMBE, PATRICK R.
S14	17 E1-E4

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S15 16 RD (unique items)

? t s16/3, k/1-16

>>>KW C option is not available in file(s): 399

>>>Set 16 does not exist

? ds

Set	Items	Description
S1	129	E1-E12
S2	32	S1 AND CLOSTR? AND NEUROTOXIN
S3	29	RD (unique items)
S4	349	E1-E12
S5	26	S4 AND CLOSTRIDIAL AND NEUROTOXIN
S6	24	RD (unique items)
S7	188	E1-E12
S8	143	RD (unique items)
S9	0	S8 AND CLOSTRIDIS AND NEUROTOXIN
S10	19	S8 AND CLOSTR? AND NEUROTOXIN
S11	19	RD (unique items)
S12	26	E1-E10
S13	25	RD (unique items)
S14	17	E1-E4
S15	16	RD (unique items)



? e au=stancombe, patrick

Ref	Items	Index-term
E1	4	AU=STANCOMBE, P.
E2	2	AU=STANCOMBE, P. R.
E3	10	*AU=STANCOMBE, PATRICK
E4	1	AU=STANCOMBE, PATRICK R.
E5	2	AU=STANCOMBE, R.
E6	2	AU=STANCOMBE, R.
E7	2	AU=STANCOMBE, S.
E8	3	AU=STANCOMBE, TODD S.
E9	1	AU=STANCOMPIANO, P. A.
E10	1	AU=STANCON, ALEXEI
E11	2	AU=STANCOT, J.
E12	1	AU=STANCOTO, LOUIS F.

Enter P or PAGE for more

? s e1-e4

4	AU=STANCOMBE, P.
2	AU=STANCOMBE, P. R.
10	AU=STANCOMBE, PATRICK
1	AU=STANCOMBE, PATRICK R.
S16	17 E1-E4

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S17 16 RD (unique items)

? t s17/3,k/1-16

>>>KW C option is not available in file(s): 399

17/3,K/1 (Item 1 from file: 50)

DI ALOG(R) File 50: CAB Abstracts

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0006891750 CAB Accession Number: 19941608519

Key features of cereal genome organization as revealed by the use of cytosine methylation-sensitive restriction endonucleases.

Moore, G.; Abbo, S.; Cheung, W.; Foote, T.; Gale, M.; Koebner, R.; Leitch, A.; Leitch, I.; Money, T.; Stancombe, P.; Yano, M.; Flavell, R.

John Innes Institute, John Innes Centre, Colney Lane, Norwich, UK.

Genomics (San Diego) vol. 15 (3): p.472-482

Publication Year: 1993

ISSN: 0888-7543

Language: English

Record Type: Abstract

Document Type: Journal article

... S.; Cheung, W.; Foote, T.; Gale, M.; Koebner, R.; Leitch, A.; Leitch, I.; Money, T.; Stancombe, P.; Yano, M.; Flavell, R.

17/3,K/2 (Item 2 from file: 50)

DI ALOG(R) File 50: CAB Abstracts

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0006565371 CAB Accession Number: 19921629636

Targeting deletion (homeologous chromosome pairing locus) or addition line single copy sequences from cereal genomes.

Clarke, B.; Stancombe, P.; Money, T.; Foote, T.; Moore, G.

10527411singlechainpolypeptide.txt

Cambridge Laboratory, John Innes Centre for Plant Science Research,  
Colney Lane, Norwich, NR4 7VJ, Norfolk, UK.

Nucleic Acids Research vol. 20 (6): p.1289-1292

Publication Year: 1992

ISSN: 0305-1048

Language: English

Record Type: Abstract

Document Type: Journal article

Clarke, B.; Stancombe, P.; Money, T.; Foot e, T.; Moore, G

17/3, K/3 (Item 3 from file: 50)

DIALOG(R) File 50: CAB Abstracts

(c) 2010 CAB International. All rts. reserv.

0006515045 CAB Accession Number: 19921627345

Genome analysis in cereals.

More, G.; Cheung, W Y.; Clarke, B.; Foot e, T. N.; Money, T. A.;  
Stancombe, P. R.

IPSR Cambridge Laboratory, John Innes Centre, Colney, Norwich NR4 7UH,  
UK.

Annual report, AFRC Institute of Plant Science Research, John Innes  
Institute and Sainsbury Laboratory, 1990.

p. 5-6

Publication Year: 1991?

Publisher: IPSR & John Innes Institute Norwich, UK

Language: English

Record Type: Abstract

Document Type: Annual report

More, G.; Cheung, W Y.; Clarke, B.; Foot e, T. N.; Money, T. A.;  
Stancombe, P. R.

17/3, K/4 (Item 1 from file: 65)

DIALOG(R) File 65: Inside Conferences

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03258236 INSI DE CONFERENCE ITEM ID: CN034439904

Characterization of neprilysin (NEP) and endothelin-converting enzyme  
(ECE) genes from *Caenorhabditis elegans*

Stancombe, P. R.; Gami, M.; Coates, D.; Isaac, R. E.

CONFERENCE: Neuropeptides: from gene regulation to protein processing;  
671st Meeting, the Biochemical Society structural biology-Colloquium  
BIOCHEMICAL SOCIETY TRANSACTIONS, 2000; VOL 27; NO 3 P: 82

London, Portland Press, 2000

ISSN: 0300-5127

LANGUAGE: English DOCUMENT TYPE: Conference Abstracts

CONFERENCE SPONSOR: Biochemical Society

CONFERENCE LOCATION: Leeds

CONFERENCE DATE: Apr 2000

NOTE:

Held as part of the 671st meeting of the Biochemical Society

Stancombe, P. R.; Gami, M.; Coates, D.; Isaac, R. E.

17/3, K/5 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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152279930 CA: 152(13)279930d PATENT

Page 42

10527411singlechainpolypeptide.txt

Non-cytotoxic protease fusion proteins comprising EGF muteins and their therapeutic use

INVENTOR(AUTHOR): Cossins, Aimee; Birch-Machin, Ian; Stancombe, Patrick  
LOCATION: UK,

ASSIGNEE: Syntaxin Limited

PATENT: PCT International ; WO 201020811 A1 DATE: 20100225

APPLICATION: WO 2009GB51036 (20090819) \*GB 200815264 (20080821)

PAGES: 95pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

C07K-0014/485 A I F B 20060101 H EP

C07K-0014/33 A I L B 20060101 H EP

C12N-0015/62 A I L B 20060101 H EP

C12N-0015/12 A I L B 20060101 H EP

A61K-0038/16 A N L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PE; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; SM; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

17/3, K/6 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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152185609 CA: 152(9)185609d PATENT

Fusion proteins of Clostridial neurotoxin functional domains and their uses

INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK,

ASSIGNEE: Syntaxin Limited; The Health Protection Agency

PATENT: U.S. Pat. Appl. Publ. ; US 20100022751 A1 DATE: 20100128

APPLICATION: US 2009369341 (20090211) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 2002241596 (20020912) \*US 2007717713 (20070314) \*US 2008174896 (20080717)

PAGES: 48pp., Cont.-in-part of Ser. No. US 2008-174896. Abandoned

CODEN: USXXCO LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 530350000

IPC/8 + Level Value Position Status Version Action Source Office:

C07K-0014/33 A I F B 20060101 20100128 H US

C07H-0021/04 A I L B 20060101 20100128 H US

C12P-0021/00 A I L B 20060101 20100128 H US

17/3, K/7 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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148024474 CA: 148(2)24474h PATENT

Clostridial neurotoxin fusion proteins targeted to nociceptive sensory neurons for the treatment of pain

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATI ON: UK,

ASSI GNEE: Syntaxi n Li mited; All ergan, Inc.

PATENT: PCT International ; WO 2007138339 A2 DATE: 20071206

APPLI CATI ON: WO 2007GB2049 (20070601) \*GB 200610867 (20060601)

PAGES: 124pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

I PCR/ 8 + Level Value Position Status Version Action Source Office:

A61K- 0038/ 48 A I F B 20060101 H EP

A61K- 0039/ 08 A I L B 20060101 H EP

A61P- 0025/ 04 A I L B 20060101 H EP

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW  
 BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI ;  
 GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;  
 KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ;  
 NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
 SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESI GNATED REGIONAL: AT; BE; BG; CH  
 ; CY; CZ; DE; DK; EE; ES; FI ; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 MT; NL; PL; PT; RO; SE; SI ; SK; TR; BF; BJ; CF; CG; CI ; CM; GA; GN; GQ; GW  
 ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;  
 ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

17/ 3, K/ 8 (Item 4 from file: 399)

DI ALOG( R) Fi le 399: CA SEARCH( R)

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145050778 CA: 145(3) 50778t PATENT

Fusi on protei ns comprising non- cytotoxi c protease, translocati on,  
 protease cleavage site, and targeting moi eties for the treatment of pai nINVENTOR( AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip;  
 Stancombe, Patrick; Aoki, K. Roger; Francis, Joseph; Steward, Lance

LOCATI ON: UK,

ASSI GNEE: Health Protection Agency; All ergan, Inc.

PATENT: PCT International ; WO 200659093 A2 DATE: 20060608

APPLI CATI ON: WO 2005GB4585 (20051201) \*GB 200426394 (20041201) \*GB  
 20054964 (20050310)

PAGES: 267 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

I PCR/ 8 + Level Value Position Status Version Action Source Office:

A61K- 0038/ 16 A I F B 20060101 H EP

C07K- 0019/ 00 A I L B 20060101 H EP

C07K- 0014/ 435 A I L B 20060101 H EP

C12N- 0015/ 62 A I L B 20060101 H EP

DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI ; GB; GD;  
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
 LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
 OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;  
 TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESI GNATED REGIONAL: AT; BE; BG; CH  
 ; CY; CZ; DE; DK; EE; ES; FI ; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI ; SK; TR; BF; BJ; CF; CG; CI ; CM; GA; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

17/ 3, K/ 9 (Item 5 from file: 399)

DI ALOG( R) Fi le 399: CA SEARCH( R)

(c) 2010 American Chemical Society. All rts. reserv.

145050777 CA: 145(3) 50777s PATENT

Fusi on protei ns comprising non- cytotoxi c protease, translocati on,  
 protease cleavage site, and targeting moi eties for the treatment of  
 di seasess

10527411singlechainpolypeptide.txt

INVENTOR(AUTHOR): Foster, Keith; Chaddock, John; Marks, Philip;  
Stancombe, Patrick; Durose, Lyndsey

LOCATION: UK,

ASSIGNEE: Health Protection Agency

PATENT: PCT International ; WO 200659113 A2 DATE: 20060608

APPLICATION: WO 2005GB4606 (20051201) \*GB 200426397 (20041201)

PAGES: 114 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

C07K-0014/33

A I F B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;  
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; NA; NG; NI; NO; NZ;  
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;  
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH;  
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

17/3, K/10 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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143417270 CA: 143(23)417270f PATENT

recombinant expression of clostridial neurotoxin light and heavy chain  
domain and its antibody and DNA vaccine applications

INVENTOR(AUTHOR): Shone, Charles Clifford; Quinn, Conrad Padraig; Foster,  
Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe,  
Patrick; Wayne, Jonathan

LOCATION: UK,

PATENT: U.S. Pat. Appl. Publ. ; US 20050244435 A1 DATE: 20051103

APPLICATION: US 200577550 (20050311) \*GB 9617671 (19960823) \*GB 9625996  
(19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829  
(19990223) \*US 2002241596 (20020912)

PAGES: 45 pp., Cont.-in-part of U.S. Ser. No. 241,596. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: 424239100; A61K-039/08A

17/3, K/11 (Item 7 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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139349724 CA: 139(23)349724x JOURNAL

Isolation of the gene and large-scale expression and purification of  
recombinant Erythrina cristagalli lectin

AUTHOR(S): Stancombe, Patrick R.; Alexander, Frances C. G.; Ling, Roger;  
Matheson, Mary A.; Shone, Clifford C.; Chaddock, John A.

LOCATION: Centre for Applied Microbiology and Research, Wiltshire, UK,  
SP4 0JG

JOURNAL: Protein Expression Purif. (Protein Expression and Purification)

DATE: 2003 VOLUME: 30 NUMBER: 2 PAGES: 283-292 CODEN: PEXPEJ ISSN:

1046-5928 PUBLISHER ITEM IDENTIFIER: 1046-5928(03)00125-6 LANGUAGE:  
English PUBLISHER: Elsevier Science

17/3, K/12 (Item 8 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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139207733 CA: 139(14)207733a PATENT  
 Construction of recombinant single-chain toxins for use in vaccines and toxin assays  
 INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan  
 LOCATION: UK,  
 ASSIGNEE: Microbiological Research Authority; Speywood Laboratory Limited  
 PATENT: U.S. Pat. Appl. Publ.; US 20030166238 A1 DATE: 20030904  
 APPLICATION: US 241596 (20020912) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 242689 (19990223)  
 PAGES: 37 pp., Cont.-in-part of U.S. Ser. No. 255,829. CODEN: USXXCO  
 LANGUAGE: English  
 PATENT CLASSIFICATIONS:  
 CLASS: 435219000; C12N-009/50A; C07H-021/04B; C12P-021/04B; C12N-001/21B; C07K-014/33B

17/3, K/13 (Item 9 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

133319764 CA: 133(23)319764u JOURNAL  
 Conserved roles for peptidases in the processing of invertebrate neur opeptides  
 AUTHOR(S): Isaac, R. E.; Siviter, R. J.; Stancombe, P.; Coates, D.; Shirras, A. D.  
 LOCATION: School of Biology, University of Leeds, Leeds, UK, LS2 9JT  
 JOURNAL: Biochem Soc. Trans. DATE: 2000 VOLUME: 28 NUMBER: 4 PAGES: 460-464 CODEN: BCSTB5 ISSN: 0300-5127 LANGUAGE: English PUBLISHER: Portland Press Ltd.

17/3, K/14 (Item 1 from file: 185)  
 DI ALOG(R) File 185: Zoological Record Online(R)  
 (c) 2010 The Thomson Corp. All rts. reserv.

03007827 BIOSIS No. 13700006255  
 Conserved role for peptidases in the processing of invertebrate neur opeptides.  
 AUTHORS: Isaac, R. E. (a); Siviter, R. J.; Stancombe, P.; Coates, D.; Shirras, A. D.  
 AUTHORS ADDRESS: (a) School of Biology, University of Leeds, Leeds LS2 9JT; United Kingdom  
 SOURCE: Biochemical Society Transactions 28(4), August 2000:460-464.  
 [Print]  
 DOCUMENT TYPE: Article; Meeting paper  
 ISSN: 0300-5127  
 LANGUAGES: English SUMMARY LANGUAGES: English  
 RECORD TYPE: Citation

...AUTHORS: a); Siviter, R. J.; Stancombe, P.; Coates, D.; Shirras, A. D.

17/3, K/15 (Item 1 from file: 32)  
 DI ALOG(R) File 32: METADEX  
 (c) 2010 CSA. All rts. reserv.

0005035898 IP ACCESSION NO: 201004-71-1505280  
 Recombinant toxin fragments

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick;  
Wayne, Jonathan

DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English  
FILE SEGMENT: Metadex

... Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock,  
John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick; Wayne,  
Jonathan

17/3, K/16 (Item 2 from file: 32)  
DIALOG(R) File 32: METADEX  
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0004951167 IP ACCESSION NO: 201003-71-1437202  
Fusion proteins

Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick;  
Aoki, Kei Roger; Francis, Joseph; Steward, Lance

, USA

DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English  
FILE SEGMENT: Metadex

Foster, Keith; Chaddock, John; Marks, Philip; Stancombe, Patrick;  
Aoki, Kei Roger; Francis, Joseph; Steward, Lance  
? e au=wayne, jonathan

Ref	Items	Index-term
E1	1	AU=WAYNE, JOHN BRUCE
E2	1	AU=WAYNE, JOHN DAVI D ALEXANDER
E3	6 *	AU=WAYNE, JONATHAN
E4	2	AU=WAYNE, JONATHAN M
E5	1	AU=WAYNE, JONATHAN M
E6	2	AU=WAYNE, JONATHAN MARK
E7	1	AU=WAYNE, JONES J
E8	1	AU=WAYNE, JOSEPH EMMETT, III
E9	1	AU=WAYNE, JOSHUA
E10	1	AU=WAYNE, JR., W W
E11	13	AU=WAYNE, JS
E12	1	AU=WAYNE, JULIE RENEE HOLLI DAY

Enter P or PAGE for more

? s e1-e6

1	AU=WAYNE, JOHN BRUCE
1	AU=WAYNE, JOHN DAVI D ALEXANDER
6	AU=WAYNE, JONATHAN
2	AU=WAYNE, JONATHAN M
1	AU=WAYNE, JONATHAN M
2	AU=WAYNE, JONATHAN MARK
S18	13 E1-E6

? t s18/3, k/1-13

>>>KW C option is not available in file(s): 399

18/3, K/1 (Item 1 from file: 98)

10527411singlechainpolypeptide.txt

DIALOG(R) File 98: General Sci Abs  
(c) 2010 The HWWilson Co. All rts. reserv.

5996857 H.W WILSON RECORD NUMBER: BGSA03000005  
The mcrA gene as an alternative to 16S rRNA in the phylogenetic analysis of  
methanogen populations in landfill  
Luton, Philip E  
Wayne, Jonathan M; Sharp, Richard J  
Microbiology v. 148 pt11 (November 2002) p. 3521-30  
DOCUMENT TYPE: Feature Article  
SPECIAL FEATURES: Bibliography Diagram Table ISSN: 1350-0872  
LANGUAGE: English  
COUNTRY OF PUBLICATION: United Kingdom

Wayne, Jonathan M..

18/3, K/2 (Item 1 from file: 143)  
DIALOG(R) File 143: Biol. & Agric. Index  
(c) 2010 The HWWilson Co. All rts. reserv.

2113881 H.W WILSON RECORD NUMBER: BBAI02116204  
The mcrA gene as an alternative to 16S rRNA in the phylogenetic analysis of  
methanogen populations in landfill  
Luton, Philip E  
Wayne, Jonathan M; Sharp, Richard J  
Microbiology v. 148 pt11 (November 2002) p. 3521-30  
ISSN: 1350-0872

Wayne, Jonathan M..

18/3, K/3 (Item 1 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rts. reserv.

152185609 CA: 152(9)185609d PATENT  
Fusion proteins of Clostridial neurotoxin functional domains and their  
uses  
INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster,  
Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe,  
Patrick; Wayne, Jonathan  
LOCATION: UK,  
ASSIGNEE: Syntaxin Limited; The Health Protection Agency  
PATENT: U.S. Pat. Appl. Publ.; US 20100022751 A1 DATE: 20100128  
APPLICATION: US 2009369341 (20090211) \*GB 9617671 (19960823) \*GB 9625996  
(19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829  
(19990223) \*US 2002241596 (20020912) \*US 2007717713 (20070314) \*US  
2008174896 (20080717)  
PAGES: 48pp., Cont.-in-part of Ser. No. US 2008-174896. Abandoned  
CODEN: USXXCO LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: 530350000  
IPCR/8 + Level Value Position Status Version Action Source Office:  
O07K-0014/33 A I F B 20060101 20100128 H US  
O07H-0021/04 A I L B 20060101 20100128 H US  
C12P-0021/00 A I L B 20060101 20100128 H US

18/3, K/4 (Item 2 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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10527411singlechainpolypeptide.txt

147023292 CA: 147(2)23292q JOURNAL

Re-engineering the target specificity of clostridial neurotoxins - a route to novel therapeutics

AUTHOR(S): Foster, Keith A.; Adams, Emily J.; Durose, Lyndsey; Gruttwell, Caroline J.; Marks, Elizabeth; Shone, Clifford C.; Chaddock, John A.; Cox, Clare L.; Heaton, Charlotte; Sutton, J. Mark; Wayne, Jonathan; Alexander, Frances C. G.; Rogers, Duncan F.

LOCATION: Centre for Emergency Preparedness & Response, Health Protection Agency, Salisbury, UK, SP4 0JG

JOURNAL: Neurotox. Res. (Neurotoxicity Research) DATE: 2006 VOLUME: 9

NUMBER: 2,3 PAGES: 101-107 CODEN: NURRFI ISSN: 1029-8428 LANGUAGE: English PUBLISHER: F. P. Graham Publishing Co.

18/3, K/5 (Item 3 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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143417270 CA: 143(23)417270f PATENT

recombinant expression of clostridial neurotoxin light and heavy chain domain and its antibody and DNA vaccine applications

INVENTOR(AUTHOR): Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan

LOCATION: UK,

PATENT: U.S. Pat. Appl. Publ. ; US 20050244435 A1 DATE: 20051103

APPLICATI ON: US 200577550 (20050311) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 2002241596 (20020912)

PAGES: 45 pp., Cont.-in-part of U.S. Ser. No. 241,596. CODEN: USXXCO

LANGUAGE: English

PATENT CLASSIFI CATI ONS:

CLASS: 424239100; A61K-039/08A

18/3, K/6 (Item 4 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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143280836 CA: 143(16)280836y JOURNAL

Preparation of specifically activatable endopeptidase derivatives of Clostridium botulinum toxins type A, B, and C and their applications

AUTHOR(S): Sutton, J. Mark; Wayne, Jonathan; Scott-Tucker, Anthony; O'Brien, Susan M.; Marks, Philip M. H.; Alexander, Frances C. G.; Shone, Clifford C.; Chaddock, John A.

LOCATION: Centre for Applied Microbiology and Research, Health Protection Agency, Wiltshire, UK, SP4 0JG

JOURNAL: Protein Expression Purif. (Protein Expression and Purification)

DATE: 2005 VOLUME: 40 NUMBER: 1 PAGES: 31-41 CODEN: PEXPEJ ISSN: 1046-5928 PUBLISHER ITEM IDENTIFIER: 1046-5928(04)00232-3 LANGUAGE: English PUBLISHER: Elsevier

18/3, K/7 (Item 5 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

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140333147 CA: 140(21)333147w DISSERTATI ON

The development of molecular techniques for microbial population analysis in landfills

AUTHOR(S): Wayne, Jonathan Mark

LOCATION: Open University, Milton Keynes, UK,

DATE: 2001 PAGES: No pp., Given CODEN: DABBBA LANGUAGE: English

CITATION: Diss. Abstr. Int., C 2002, 63(3), 450 AVAL: From degree-granting institution

18/3, K/8 (Item 6 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

139207733 CA: 139(14)207733a PATENT  
 Construction of recombinant single-chain toxins for use in vaccines and toxin assays  
 INVENTOR(AUTHOR): Shone, Clifford Charles; Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip; Sutton, J. Mark; Stancombe, Patrick; Wayne, Jonathan  
 LOCATION: UK  
 ASSIGNEE: Microbiological Research Authority; Speywood Laboratory Limited  
 PATENT: U.S. Pat. Appl. Publ.; US 20030166238 A1 DATE: 20030904  
 APPLICATION: US 241596 (20020912) \*GB 9617671 (19960823) \*GB 9625996 (19961213) \*US 782893 (19961227) \*WO 97GB2273 (19970822) \*US 255829 (19990223) \*US 242689 (19990223)  
 PAGES: 37 pp., Cont.-in-part of U.S. Ser. No. 255,829. CODEN: USXXCO  
 LANGUAGE: English  
 PATENT CLASSIFICATIONS:  
 CLASS: 435219000; C12N-009/50A; C07H-021/04B; C12P-021/04B; C12N-001/21B; C07K-014/33B

18/3, K/9 (Item 7 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
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138249134 CA: 138(17)249134r JOURNAL  
 The mcrA gene as an alternative to 16S rRNA in the phylogenetic analysis of methanogen populations in landfill  
 AUTHOR(S): Luton, Philip E.; Wayne, Jonathan M.; Sharp, Richard J.; Riley, Paul W  
 LOCATION: Centre for Applied Microbiology and Research, Salisbury, UK, SP4 0JG  
 JOURNAL: Microbiology (Reading, U. K.) (Microbiology (Reading, United Kingdom)) DATE: 2002 VOLUME: 148 NUMBER: 11 PAGES: 3521-3530 CODEN: MICRO ISSN: 1350-0872 LANGUAGE: English PUBLISHER: Society for General Microbiology

18/3, K/10 (Item 1 from file: 35)  
 DI ALOG(R) File 35: Dissertation Abs Online  
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01898965 ORDER NO: AADAA-IC808734  
 The development of molecular techniques for microbial population analysis in landfills  
 Author: Wayne, Jonathan Mark  
 Degree: Ph. D.  
 Year: 2001  
 Corporate Source/Institution: Open University (United Kingdom) (0949)  
 Source: VOLUME 63/03- C OF DISSERTATION ABSTRACTS INTERNATIONAL.  
 PAGE 450

Author: Wayne, Jonathan Mark

18/3, K/11 (Item 2 from file: 35)  
 DI ALOG(R) File 35: Dissertation Abs Online  
 Page 50

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01163460 ORDER NO: AAD91-07757

ECONOMIC IMPACT OF HEART DISEASE: THE DECISION TO RETURN TO WORK (HEALTH ECONOMICS, LABOR FORCE PARTICIPATION)

Author: WAYNE, JOHN BRUCE

Degree: PH. D.

Year: 1990

Corporate Source/Institution: THE UNIVERSITY OF ALABAMA IN BIRMINGHAM (0005)

Source: VOLUME 52/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 778. 261 PAGES

Author: WAYNE, JOHN BRUCE

18/3, K/12 (Item 3 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online

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01107171 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L.

THE MEANING OF A RETURN TO FREUD IN THE FRENCH CRITIQUE OF LOGOCENTRIC PSYCHOLOGY

Author: WAYNE, JOHN DAVID ALEXANDER

Degree: PH. D.

Year: 1990

Corporate Source/Institution: UNIVERSITY OF SOUTHERN CALIFORNIA (0208)

Source: VOLUME 51/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 446.

Author: WAYNE, JOHN DAVID ALEXANDER

18/3, K/13 (Item 1 from file: 32)

DIALOG(R) File 32: METADEX

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0005035898 IP ACCESSION NO: 201004-71-1505280

Recombinant toxin fragments

Shone, Charles Clifford; Quinn, Conrad Padraig; Foster, Keith Alan;  
Chaddock, John; Marks, Philip; Sutton, J Mark; Stancombe, Patrick;  
Wayne, Jonathan

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

FILE SEGMENT: Metadex

...Quinn, Conrad Padraig; Foster, Keith Alan; Chaddock, John; Marks, Philip  
; Sutton, J Mark; Stancombe, Patrick; Wayne, Jonathan  
? ds

Set	Items	Description
S1	129	E1- E12
S2	32	S1 AND CLOSTR? AND NEUROTOXIN
S3	29	RD (unique items)
S4	349	E1- E12
S5	26	S4 AND CLOSTRIDIAL AND NEUROTOXIN
S6	24	RD (unique items)
S7	188	E1- E12
S8	143	RD (unique items)
S9	0	S8 AND CLOSTRID\$ AND NEUROTOXIN

10527411singlechainpolypeptide.txt

S10	19	S8 AND CLOSTR? AND NEUROTOXIN
S11	19	RD (unique items)
S12	26	E1- E10
S13	25	RD (unique items)
S14	17	E1- E4
S15	16	RD (unique items)
S16	17	E1- E4
S17	16	RD (unique items)
S18	13	E1- E6

? s (single(w)chain(w)polypeptide) and neurotoxin  
Processing  
Processed 20 of 55 files ...  
Completed processing all files

11995029	SINGLE
6086545	CHAIN
725228	POLYPEPTIDE
1453	SINGLE(W)CHAIN(W)POLYPEPTIDE
132916	NEUROTOXIN

S19 64 (SINGLE(W)CHAIN(W)POLYPEPTIDE) AND NEUROTOXIN  
? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S20	21	RD (unique items)
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? t s20/3, k/1-21  
>>>KW C option is not available in file(s): 399

20/3, K/1 (Item 1 from file: 5)  
DI ALOG(R) File 5: Biosis Previews(R)  
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0021507490 BIOSIS NO.: 201000186513  
Recombinant toxin fragments  
AUTHOR: Shone Charles Clifford; Anonymous; Quinn Conrad Padraig; Foster  
Keith Alan; Chaddock John; Marks Philip; Sutton J Mark; Stancombe Patrick  
; Wayne Jonathan  
AUTHOR ADDRESS: Salisbury, United Kingdom\*United Kingdom  
JOURNAL: Official Gazette of the United States Patent and Trademark Office  
Patents MAR 9 2010 2010  
PATENT NUMBER: US 07674470 PATENT DATE GRANTED: March 09, 2010 20100309  
PATENT CLASSIFICATION: 424-2471 PATENT ASSIGNEE: Health Protection Agency;  
Syntaxin Limited PATENT COUNTRY: USA  
ISSN: 0098-1133  
DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: Antigenic compositions are provided comprising a single  
chain polypeptide comprising first and second domains,  
wherein said first domain is a clostridial neurotoxin light chain  
or a fragment or a variant thereof and is capable of cleaving one...  
...or plasma membrane associated proteins essential to exocytosis; and said  
second domain is a clostridial neurotoxin heavy chain H(N)portion  
or a fragment or a variant thereof, wherein said second...  
...own; and wherein the second domain lacks a functional C-terminal part of  
a clostridial neurotoxin heavy chain designated H(C) thereby  
rendering the polypeptide incapable of binding to cell surface receptors  
that are the natural cell surface receptors to which native clostridial  
neurotoxin binds. Antibodies that bind to the polypeptides, and

10527411singlechainpolypeptide.txt  
compositions comprising these antibodies, are also provided...

...the DNA vaccine compositions, can be used in methods of immunising against, or treating, clostridial neurotoxin poisoning in a subject by administering to that subject a therapeutically effective amount of the...

20/3, K/2 (Item 2 from file: 5)  
DI ALOG(R) File 5: Biosis Previews(R)  
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18490710 BIOSIS NO.: 200510185210  
Detection of Botulinum Neurotoxin's enzymatic activity of Type A  
AUTHOR: Ambreen Ghunche (Reprint); Zhang Jing Zhong; Singh Bal Ram; Bhowmik Shankha  
AUTHOR ADDRESS: Univ Massachusetts Dartmouth, Dept Chem and Biochem N  
Dartmouth, MA 02747 USA\*\*USA  
JOURNAL: FASEB Journal 18 (8, Suppl. S): pC23 MAY 14 2004 2004  
CONFERENCE/MEETING: Annual Meeting of the  
American Society for Biotechnology and Molecular Biology/8th Congress of the  
International Union for Biochemistry and Molecular Biology Boston, MA, USA  
June 12 - 16, 2004; 20040612  
SPONSOR: Amer Soc Biochem & Mol Biol  
Int Union Biochem & Mol Biol  
ISSN: 0892-6638  
DOCUMENT TYPE: Meeting; Meeting Abstract  
RECORD TYPE: Abstract  
LANGUAGE: English

Detection of Botulinum Neurotoxin's enzymatic activity of Type A

... ABSTRACT: Clostridium Botulinum Botulinum neurotoxins (BoNTs) are large proteins (150 kDa) and are synthesized as single chain polypeptide. The biologically active form of the neurotoxins consists of a dichain, which is produced by endogenous or exogenous proteolytic cleavage (nicking) of the single chain polypeptide, leading to a 50 kDa light chain and 100 kDa heavychain which are covalently linked...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...toxin, neurotoxin, structure...

20/3, K/3 (Item 3 from file: 5)  
DI ALOG(R) File 5: Biosis Previews(R)  
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17005504 BIOSIS NO.: 200200599015  
Neuromuscular action of Bothrops lanceolatus (Fer de lance) venom and a caseinolytic fraction  
AUTHOR: Lobo de Araujo Albetiza (Reprint); Donato Jose Luiz; Leite Gildo Bernardo; Prado-Franceschi Julia; Fontana Marcos Dias; Bon Cassian; Simoni Lea Rodrigues  
AUTHOR ADDRESS: Departamento de Farmacologia, Faculdade de Ciencias Medicas, Universidade Estadual de Campinas (UNICAMP), 13083-970, CP 6111, Campinas, SP, Brazil\*\*Brazil  
JOURNAL: Toxicon 40 (9): p1283-1289 September, 2002 2002  
MEDIUM: print  
ISSN: 0041-0101  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

... ABSTRACT: Bothrops lanceolatus venom using gel filtration and ion-exchange chromatography. The purified protein was a single chain polypeptide with an estimated molecular mass of 27.5 kDa by SDS-PAGE and had caseinolytic...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... neurotoxin;

20/3, K/4 (Item 4 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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15577309 BIOSIS NO.: 200000295622

Discontinuous structure of botulinum neurotoxin: Identification of cleavage sites in types C, D, and F neurotoxin molecules

AUTHOR: Sagane Yoshiyoshi; Watanabe Toshihiro; Kouguchi Hirokazu; Sunagawa Hiroyuki; Inoue Kaoru; Fujinaga Yukako; Oguma Keiji; Chyama Tohru (Reprint)

AUTHOR ADDRESS: Department of Food Science, Faculty of Biotechnology, Tokyo University of Agriculture, 196 Yasaka, Abashiri, 099-2493, Japan\*\*Japan

JOURNAL: Journal of Protein Chemistry 18 (8): p885-892 Nov., 1999 1999

MEDIUM: print

ISSN: 0277-8033

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Discontinuous structure of botulinum neurotoxin: Identification of cleavage sites in types C, D, and F neurotoxin molecules

ABSTRACT: Botulinum neurotoxin (NT) is synthesized by Clostridium botulinum as about a 150-kDa single-chain polypeptide. Posttranslational modification by bacterial or exogenous proteases yielded discontinuous structure which formed a disulfide loop...

20/3, K/5 (Item 5 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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14614815 BIOSIS NO.: 199800409062

Covalent structure of botulinum neurotoxin type B: Location of sulfhydryl groups and disulfide bridge and identification of C-termini of light and heavy chains

AUTHOR: Antharavally Babu S; Dasgupta Bibhuti R (Reprint)

AUTHOR ADDRESS: Dep. Food Microbiol. and Toxicol., Univ. Wis., Madison, WI 53706, USA\*\*USA

JOURNAL: Journal of Protein Chemistry 17 (5): p417-428 July, 1998 1998

MEDIUM: print

ISSN: 0277-8033

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Covalent structure of botulinum neurotoxin type B: Location of sulfhydryl groups and disulfide bridge and identification of C-termini of ...

ABSTRACT: Botulinum neurotoxin (NT) serotype B, produced by Clostridium botulinum (proteolytic strain), is a approx 150-kDa single-chain polypeptide of 1291 amino acids, of which

10527411singlechainpolypeptide.txt  
10 are Cys residues (Whelan et al. (1992), Appl...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: botulinum neurotoxin type B...

20/3, K/6 (Item 6 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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14218977 BIOSIS NO.: 199800013224  
Covalent structure of botulinum neurotoxin type E: Location of  
sulfhydryl groups, and disulfide bridges and identification of C-termini  
of light and heavy chains  
AUTHOR: Antharavally Babu S; Dasgupta Bibhuti R  
AUTHOR ADDRESS: Dep. Food Microbiol. Toxicol., Univ. Ws., Madison, W  
53706, USA\*\*USA  
JOURNAL: Journal of Protein Chemistry 16 (8): p787-799 Nov., 1997 1997  
MEDIUM print  
ISSN: 0277-8033  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

Covalent structure of botulinum neurotoxin type E: Location of  
sulfhydryl groups, and disulfide bridges and identification of C-termini  
of...

ABSTRACT: Botulinum neurotoxin (NT) serotype E is synthesized by  
Clostridium botulinum as an approx 150-kDa single-chain  
polypeptide of 1252 amino acid residues of which 8 are Cys residues  
(Puolet et al. (1992...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: botulinum neurotoxin type E...

20/3, K/7 (Item 7 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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12293301 BIOSIS NO.: 199497314586  
Characterization of toxin III of the scorpion Leiurus quinquestriatus  
quinquestriatus: A new type of alpha-toxin highly toxic both to mammals  
and insects  
AUTHOR: Kopeyan Charles (Reprint); Mansuelle Pascal; Martin-Eauclaire  
Marie-France; Rochat Herve; Miranda Francois  
AUTHOR ADDRESS: Lab. Biochimie, Centre National Recherche Scientifique URA  
1455, Faculte Med., Secteur Nord, Boulevard Pierre Dramard, 13916  
Marseille Cedex 20, France\*\*France  
JOURNAL: Natural Toxins 1 (5): p308-312 1993 1993  
ISSN: 1056-9014  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

... ABSTRACT: active on sodium channels, Lqg III, consisting of 64 amino  
acids, is a 7 kDa single-chain polypeptide crosslinked  
by four disulfide bridges. It belongs to the alpha-toxin group, as judged  
by...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS:

MISCELLANEOUS TERMS: ... NEUROTOXIN;  
CONCEPT CODES:

20/3, K/8 (Item 8 from file: 5)  
DI ALOG(R) File 5: Biosis Previews(R)  
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12243129 BIOSIS NO.: 199497264414  
Covalent structure of botulinum neurotoxin type A: Location of  
sulfhydryl groups, and disulfide bridges and identification of C-termini  
of light and heavy chains  
AUTHOR: Krieglstein Kerstin G; Dasgupta Bibhuti R (Reprint); Henschen Agnes  
H  
AUTHOR ADDRESS: Dep. Food Microbiol. Toxicol., University Wisconsin, 1925  
Willow Drive, Madison, W 53706, USA\*\*USA  
JOURNAL: Journal of Protein Chemistry 13 (1): p49-57 1994 1994  
ISSN: 0277-8033  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

Covalent structure of botulinum neurotoxin type A: Location of  
sulfhydryl groups, and disulfide bridges and identification of C-termini  
of...

ABSTRACT: Botulinum neurotoxin Type A is synthesized by Clostridium  
botulinum as a approx 150 kD single chain polypeptide.  
The posttranslational processing of the 1296 amino acid residue long gene  
product involves removal of...

... of disulfide bridges, and limited proteolysis (nicking) by the bacterial  
protease(s). The mature di chain neurotoxin is made of a approx 50-kD  
light chain and a approx 100-kD heavy...

... 9158; Thompson et al., 1990, Eur. J. Biochem 189, 73-81). Treatment of  
the di chain neurotoxin, dissolved in 6 M guanidine. HCl, with  
4-vinylpyridine converted 5 Cys residues into S...

... phase HPLC of the cyanogen bromide mixtures of the exclusively alkylated  
and the mercaptolyzed-alkylated neurotoxin. The chromatographically  
isolated components were identified by N-terminal amino acid sequence  
analysis. The HPLC...

... amino acid residues, Thr 438-Lys 447, predicted to be present in the  
single chain neurotoxin were not found in the di chain  
neurotoxin. Nicking of single-chain neurotoxin by the  
protease(s) endogenous to the bacteria therefore appears to excise these  
10 amino...

20/3, K/9 (Item 9 from file: 5)  
DI ALOG(R) File 5: Biosis Previews(R)  
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11130910 BIOSIS NO.: 199243099501  
GENE STRUCTURE OF THE SNAKE SHORT-CHAIN NEUROTOXIN PRECURSOR  
AUTHOR: TAM YAT (Reprint); FUSE N; MENEZ A; TSUCHIYA T  
AUTHOR ADDRESS: DEP CHEM, FAC SCI TECHNOL, SOPHIA UNIV, TOKYO, JPN\*\*JAPAN  
JOURNAL: Toxicon 30 (5-6): p486 1992  
CONFERENCE/MEETING: TENTH WORLD CONGRESS ON ANIMAL, PLANT AND MICROBIAL  
TOXINS, SINGAPORE, SINGAPORE, NOVEMBER 3-8, 1991. TOXICON.  
ISSN: 0041-0101



DOCUMENT TYPE: Meeting  
RECORD TYPE: Citation  
LANGUAGE: ENGLISH

GENE STRUCTURE OF THE SNAKE SHORT-CHAIN NEUROTOXIN PRECURSOR  
DESCRIPTORS: ABSTRACT LATICAUDA-SEMIFASCICULATA ERABUTOXIN A ERABUTOXIN B  
ERABUTOXIN C SINGLE-CHAIN POLYPEPTIDE COMPLEMENTARY DNA

20/3, K/10 (Item 10 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
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06831183 BIOSIS NO.: 198375015126  
PURIFICATION AND PROPERTIES OF A PRESYNAPTICALLY ACTING NEUROTOXIN MANDARIN  
TOXIN FROM HORNET VESPA-MANDARINIA  
AUTHOR: ABET (Reprint); KAWAI N; NIWA A  
AUTHOR ADDRESS: LAB INSECT TOXICOLOGY, INST PHYSICAL CHEMICAL RESEARCH, TOKYO  
METROPOLITAN INST NEUROSCI, HIROSAWA 2-1, WAKO, SAITAMA, JPN\*\*JAPAN  
JOURNAL: Biochemistry 21 (7): p1693-1697 1982  
ISSN: 0006-2960  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

ABSTRACT: A hornet (V. mandarinia) neurotoxin, mandaratoxin (MDTX),  
was purified by simple procedures with column chromatography made on  
Sephadex G-50...

...by gel filtration, sodium dodecyl sulfate disc gel electrophoresis and  
amino acid analysis. MDTX was a single-chain  
polypeptide. MDTX did not migrate electrophoretically in a basic  
buffer at pH 8.3 but did...

20/3, K/11 (Item 1 from file: 34)  
DIALOG(R) File 34: SciSearch(R) Cited Ref Sci  
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09012246 Genuine Article#: 356KE No. References: 34  
Title: Purification and amino acid sequence of a highly insecticidal toxin  
from the venom of the Brazilian spider Phoneutria nigriventer which  
inhibits NMDA-evoked currents in rat hippocampal neurones  
Author: deFigueiredo SG; deLima ME; Cordeiro MN; Diniz CR; Patten D;  
Halliwell RF; Gilroy J; Richardson M (REPRINT)  
Corporate Source: UNIV DURHAM, GRAD SOC, 30 OLD ELVET/ DURHAM EH1  
3HN/ ENGLAND/ (REPRINT); UNIV FED ESPERITO SANTO, CBM, DEPT CIENCIAS  
FISICOL/ BR-29040090 VITORIA/ ES/ BRAZIL/; UNIV FED MINAS GERAIS, DEPT  
BIOQUIM & IMUNOL/ BR-31270901 BELO HORIZONTE/ MG/ BRAZIL/; FUNDACAO  
EZEQUIEL DIAS, CTR PESQUISA & DESENVOLVIMENTO/ BR-30510010 BELO  
HORIZONTE/ MG/ BRAZIL/; UNIV DURHAM, DEPT BIOL SCI/ DURHAM DH1  
3LE/ ENGLAND/  
Journal: TOXICON, 2001, V39, N2-3 (FEB-MAR), P309-317  
ISSN: 0041-0101 Publication Date: 20010200  
Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE,  
KIDLINGTON, OXFORD OX5 1GB, ENGLAND  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

... Abstract: amino acid sequence determined by automated Edman degradation  
showed that Tx4(5-5) is a single chain polypeptide  
composed of 47 amino acid residues, including 10 cysteines, with a  
calculated molecular mass of...

... Descriptors: spider venom; neurotoxin; NMDA-subtype glutamate

10527411singlechainpolypeptide.txt

receptor ; amino acid sequence

... Identifiers: FUNNEL-WEB SPIDER; POLYACRYLAMIDE-GEL ELECTROPHORESIS;  
GLUTAMATE RECEPTORS; LETHAL NEUROTOXIN; POLYPEPTIDE; KEYS;  
PEPTIDES

20/3, K/12 (Item 2 from file: 34)

DIALOG(R) File 34: Sci Search(R) Cited Ref Sci  
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02076612 Genuine Article#: JY941 No. References: 0

Title: CLINICALLY RELEVANT ASPECTS OF THE MECHANISM OF ACTION OF BOTULINUM  
NEUROTOXIN

Author: SIMPSON LL

Corporate Source: THOMAS JEFFERSON UNIV, JEFFERSON MED COLL, DEPT MED, ROOM  
314-JAH, 1020 LOCUST ST/ PHILADELPHIA / PA 19107

Journal: JOURNAL OF VOICE, 1992, V6, N4 (DEC), P358-364

ISSN: 0892-1997

Language: ENGLISH Document Type: ARTICLE (Abstract Available) (NO REFS  
KEYED)

Title: CLINICALLY RELEVANT ASPECTS OF THE MECHANISM OF ACTION OF BOTULINUM  
NEUROTOXIN

Abstract: Botulinum neurotoxin is a highly potent substance obtained  
from organisms such as Clostridium botulinum, Clostridium baratii and  
Clostridium butyricum. The toxin is synthesized as a single  
chain polypeptide that is cleaved to yield a heavy chain  
(approximately 100,000 Da) and a light chain (approximately 50,000 Da)  
linked by a disulfide bond. The neurotoxin is tissue-targeted to  
peripheral cholinergic nerve endings, where it acts to poison  
transmission. The...

... Descriptors: SPASMODIC DYSPHONIA ; BOTULINUM NEUROTOXIN

20/3, K/13 (Item 1 from file: 357)

DIALOG(R) File 357: Derwent Biotech Res.

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0459651 DBR Accession No.: 2009-05092 PATENT

New Clostridial single-chain polypeptide, comprises an  
opioid peptide, a Clostridial neurotoxin heavy and light chain, a  
therapeutic element, and an exogenous protease, useful for reducing  
toxicity and inhibiting neurotoxins - preparation of Clostridial  
single-chain polypeptide by vector-mediated gene  
expression in host cell and purification, useful in the preparation of  
pharmaceutical substance against neurotoxin-mediated toxicity

AUTHOR: AOKI KR; DOLLY JO; FERNANDEZ-SALAS E; FRANCIS J; GHANSHANI S;  
GILMORE MA; LI S; STEWARD LE

PATENT ASSIGNEE: ALLERGAN INC 2009

PATENT NUMBER: US 20090069238 PATENT DATE: 20090312 WPI ACCESSION NO.:  
2009-F91875 (200922)

PRIORITY APPLIC. NO.: US 648692 APPLIC. DATE: 20000825

NATIONAL APPLIC. NO.: US 192900 APPLIC. DATE: 20080815

LANGUAGE: English

New Clostridial single-chain polypeptide, comprises an  
opioid peptide, a Clostridial neurotoxin heavy and light chain, a  
therapeutic element, and an exogenous protease, useful for reducing  
toxicity and inhibiting neurotoxins - preparation of Clostridial  
single-chain polypeptide by vector-mediated gene  
expression in host cell and purification, useful in the preparation of

ABSTRACT: DERWENT ABSTRACT: NOVELTY - New single-chain

polypeptide comprises: (a) a first amino acid sequence region comprising (i) a first domain comprising a...

... a third amino acid sequence region comprising an exogenous protease cleavage site. DETAILED DESCRIPTION - New single-chain polypeptide comprises: (a) a first amino acid sequence region comprising (i) a first domain comprising a...

... under physiological conditions; and (ii) a second domain comprising a translocation element comprising a Clostridial neurotoxin heavy chain able to facilitate the transfer of the single-chain polypeptide across a vesicular membrane; (b) a second amino acid sequence region comprising a therapeutic element comprising a Clostridial neurotoxin light chain having biological activity when released into the cytoplasm of the target cell; and...

... the third amino acid sequence region. INDEPENDENT CLAIMS are: (1) a nucleotide sequence encoding the single-chain polypeptide; (2) a method of making the single-chain polypeptide comprising: (a) inserting the nucleotide sequence into a suitable host cell; (b) growing the host cell in culture; and (c) permitting or inducing the host cell to express the single chain polypeptide encoded by the nucleotide sequence; (3) a method of purifying the single chain-polypeptide comprising: (a) lysing the host cell containing the nucleotide sequence expressing the single-chain polypeptide to produce a cell lysate, the single-chain polypeptide; (b) contacting the cell lysate with a target compound so as to form a specific...

... separating the binding complex from the cell lysate; and (4) a method of activating the single-chain polypeptide, comprising incubating the single-chain polypeptide with an exogenous protease; where the exogenous protease cleaves the exogenous protease cleavage site; and where cleavage of the single-chain polypeptide by the exogenous protease converts the single-chain polypeptide from its single-chain polypeptide form into its dichain form, thus activating the single-chain polypeptide.

BIOTECHNOLOGY - Preferred Polypeptide: In the single-chain polypeptide, the opioid peptide comprises an enkephalin peptide, a bovine adrenomedullary-22 (BAM22) peptide, an endomorphin...

... ID NO: 101-110), given in the specification. The translocation element comprises a Clostridium botulinum neurotoxin heavy chain, where the C. botulinum neurotoxin heavy chain translocation element is selected from a C. botulinum serotype A neurotoxin heavy chain, a C. botulinum serotype B neurotoxin heavy chain, a C. botulinum serotype C1 neurotoxin heavy chain, a C. botulinum serotype D neurotoxin heavy chain, a C. botulinum serotype E neurotoxin heavy chain, a C. botulinum serotype F neurotoxin heavy chain and a C. botulinum serotype G neurotoxin heavy chain. The translocation element further comprises Clostridium tetani neurotoxin heavy chain. On the other hand, the therapeutic element comprises a C. botulinum neurotoxin light chain, where the Clostridium botulinum neurotoxin light chain therapeutic element is selected from a Clostridium botulinum serotype A neurotoxin light chain, a C. botulinum serotype B neurotoxin light chain, a C. botulinum serotype C1 neurotoxin light chain, a C. botulinum serotype D neurotoxin light chain, a C. botulinum serotype E neurotoxin light chain, a C. botulinum serotype F neurotoxin light chain and a C. botulinum serotype G neurotoxin light chain. The therapeutic element comprises a C.

10527411singlechainpolypeptide.txt  
tetani neurotoxin light chain. The exogenous protease cleavage site comprises a bovine enterokinase, a tobacco etch virus...

... Asn-Val (SEQ ID NO: 110) ACTIVITY - Antidote. No biological data given.  
MECHANISM OF ACTION - Neurotoxin - Inhibitor; Vaccine;  
Protease-Inhibitor. USE - The single-chain polypeptide, nucleotide sequence, and methods are useful for making a single-chain polypeptide; for purifying the single chain-polypeptide; and for activating the single-chain polypeptide (all claimed). The methods are also useful for producing recombinant activatable single-chain neurotoxin. Also, the single-chain polypeptide, nucleotide sequence and methods are useful for producing a pharmaceutical composition for reducing toxicity and inhibiting neurotoxins. ADVANTAGE - The single-chain polypeptide and method provide more stable neurotoxin polypeptides. EXAMPLE - No suitable example given. (168 pages)  
DESCRIPTORS: Clostridial single-chain polypeptide prep., vector-mediated gene transfer, expression in host cell, purification, appl., pharmaceutical preparation protein sequence...

20/3, K/14 (Item 2 from file: 357)  
DI ALOG(R) File 357: Derwent Biotech Res.  
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0458499 DBR Accession No.: 2009-03593 PATENT  
New modified Clostridial toxin, comprises an exogenous Botulinum neurotoxin (BoNT)/A di-chain loop region including a BoNT/A di-chain protease cleavage site, useful for treating neuromuscular disorders, and neuropathic disorders - role of recombinant botulinum neurotoxin in treating cancer, neuromuscular neuropathy  
AUTHOR: STATHAKIS D G; STEWARD L E; VERHAGEN M F  
PATENT ASSIGNEE: ALLERGAN INC 2009  
PATENT NUMBER: WO 200914854 PATENT DATE: 20090129 WPI ACCESSION NO.: 2009-E41154 (200914)  
PRIORITY APPLIC. NO.: US 952112 APPLIC. DATE: 20070726  
NATIONAL APPLIC. NO.: WO 2008US68504 APPLIC. DATE: 20080627  
LANGUAGE: English

New modified Clostridial toxin, comprises an exogenous Botulinum neurotoxin (BoNT)/A di-chain loop region including a BoNT/A di-chain protease cleavage site, useful for treating neuromuscular disorders, and neuropathic disorders - role of recombinant botulinum neurotoxin in treating cancer, neuromuscular neuropathy  
ABSTRACT: DERWENT ABSTRACT: NOVELTY - New modified Clostridial toxin comprising an exogenous Botulinum neurotoxin (BoNT)/A di-chain loop region including a BoNT/A di-chain protease cleavage site...

... C1, a BoNT/D, a BoNT/E, a BoNT/F, a BoNT/G, a tetanus neurotoxin (TeNT), a Baratium neurotoxin (BaNT) or a Butyricum neurotoxin (BuNT); and where the BoNT/A di-chain loop region replaces an endogenous Clostridial toxin...

... by the BoNT/A di-chain loop protease converts the modified Clostridial toxin from its single-chain polypeptide form into its di-chain form, thus activating the modified Clostridial toxin; or expressing in...

... by the BoNT/A di-chain loop protease converts the purified BoNT/A from its single-chain polypeptide form into its di-chain form, thus activating the recombinantly-expressed BoNT/A. ACTIVITY - Muscular...

10527411singlechainpolypeptide.txt

DESCRIPTORS: recombinant botulinum neurotoxin, appl. cancer, neuromuscular disease, neuropathy therapy protein toxin neuroprotective analgesic vulnerable neuroleptic cytostatic tumor (28...

20/3, K/15 (Item 3 from file: 357)  
DI ALOG(R) File 357: Derwent Biotech Res.  
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0444868 DBR Accession No.: 2008-03065 PATENT  
Use of a therapeutic molecule that is a single chain, polypeptide fusion protein, comprises non-cytotoxic protease, targeting moiety, protease cleavage site, and translocation domain, for manufacturing medicament for treating pain - fusion protein comprising protease, protease cleavage site, and translocation domain, useful in pharmaceutical composition preparation for treatment of pain  
AUTHOR: FOSTER K; CHADDOCK J; MARKS P; STANCOMBE P; ACKI K R; FRANCIS J; STEWARD L  
PATENT ASSIGNEE: ALLERGAN INC; SYNTAXIN LTD 2007  
PATENT NUMBER: WO 2007138339 PATENT DATE: 20071206 WPI ACCESSION NO.: 2008-047206 (200818)  
PRIORITY APPLIC. NO.: GB 200610867 APPLIC. DATE: 20060601  
NATIONAL APPLIC. NO.: WO 2007GB2049 APPLIC. DATE: 20070601  
LANGUAGE: English

Use of a therapeutic molecule that is a single chain, polypeptide fusion protein, comprises non-cytotoxic protease, targeting moiety, protease cleavage site, and translocation domain, for

... ABSTRACT: medicament for the treatment of particular types of pain, where the therapeutic molecule is a single chain, polypeptide fusion protein, comprising a non-cytotoxic protease or a fragment; a targeting moiety; a protease...

... medicament for the treatment of particular types of pain, where the therapeutic molecule is a single chain, polypeptide fusion protein, comprising: (A) a non-cytotoxic protease or a fragment, which is capable of...

... CLAIMS are: (1) a method of preparing a non-cytotoxic fusion protein comprising contacting a single-chain polypeptide fusion protein with a protease capable of cleaving the protease cleavage site; and cleaving the...

... domain. It comprises 20-50 amino acid residues. The non-cytotoxic protease is a clostridial neurotoxin L-chain or an IgA protease. The translocation domain is the HN domain of a clostridial neurotoxin. Preferably, the targeting moiety is an opioid. The targeting moiety is an agonist of a...

20/3, K/16 (Item 4 from file: 357)  
DI ALOG(R) File 357: Derwent Biotech Res.  
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0402032 DBR Accession No.: 2006-15528 PATENT  
New fusion protein, useful for treating, preventing or ameliorating a medical condition, e.g. asthma, acromegaly, cardiovascular conditions, or osteoporosis - involving vector-mediated gene transfer, expression in host cell for use in mucus hypersecretion, asthma, chronic obstructive pulmonary disease, endocrine neoplasia, thyrotoxicosis, hyperproliferation, Cushing's disease, hyperandrogenism, polycystic ovarian syndrome, allergy, conjunctivitis, vasomotor rhinitis,

10527411singlechainpolypeptide.txt

eosinophilia, asthma, rheumatoid arthritis, systemic lupus erythematosus, ulcerative colitis, Crohn disease, hemorrhoid, pruritus, glomerulonephritis, hepatitis, pancreatitis, gastritis, vasculitis, myocarditis, psoriasis, eczema, lung scarring, fibrotic disorder, mucus hypersecretion, myasthenia gravis, rheumatoid arthritis, Graves disease, thyrotoxicosis, autoimmune diabetes, hemolytic anemia, thrombocytopenic purpura, neutropenia, vasculitis, atrophic gastritis, anemia, diabetes mellitus, cardiovascular disorder, osteopetrosis and osteoporosis therapy and gene therapy

AUTHOR: FOSTER K; CHADDOCK J; MARKS P; STANCOMBE P; DUROSE L  
PATENT ASSIGNEE: HEALTH PROTECTION AGENCY 2006  
PATENT NUMBER: WO 200659113 PATENT DATE: 20060608 WPI ACCESSION NO.:  
2006-414841 (200642)  
PRIORITY APPLIC. NO.: GB 200426397 APPLIC. DATE: 20041201  
NATIONAL APPLIC. NO.: WO 2005GB4606 APPLIC. DATE: 20051201  
LANGUAGE: English

ABSTRACT: DERWENT ABSTRACT: NOVELTY - A single chain, polypeptide fusion protein comprising a non-cytotoxic protease, a Targeting Moiety, a protease cleavage site, and a translocation domain, is new. DETAILED DESCRIPTION - A new single chain, polypeptide fusion protein, comprises: (i) a non-cytotoxic protease, or its fragment, where the protease or...

... a terminator is located downstream of the DNA construct; (3) a method for preparing a single-chain polypeptide fusion protein; (4) a method of preparing a non-cytotoxic agent; (5) a non-cytotoxic...

... the protease cleavage site and the translocation domain. The non-cytotoxic protease is a clostridial neurotoxin L-chain. The translocation domain is the HN domain of a clostridial neurotoxin. The Targeting Moiety comprises at most 50 amino acid residues, preferably at most 40 amino...

... 17, 20, 23, 26, 29, or 32), given in the specification. Preferred Method: Preparing the single-chain polypeptide fusion protein comprises expressing a nucleic acid sequence of (1), or a DNA vector of (2), in a host cell. Preparing a non-cytotoxic agent comprises contacting the single-chain polypeptide fusion protein, with a protease capable of cleaving the protease cleavage site, cleaving the protease...

20/3, K/17 (Item 5 from file: 357)  
DIALOG(R) File 357: Derwent Biotech Res.  
(c) 2010 Thomson Reuters. All rights reserved.

0402014 DBR Accession No.: 2006-15510 PATENT  
New single chain, polypeptide fusion protein, comprising a non-cytotoxic protease, Targeting Moiety, protease cleavage site, and translocation domain, for treating, preventing, or ameliorating pain - involving vector-mediated gene transfer and expression in host cell for cancerous and non-cancerous pain, inflammatory pain and neuropathic pain prevention and therapy

AUTHOR: FOSTER K; CHADDOCK J; MARKS P; STANCOMBE P; AOKI K R; FRANCIS J; STEWARD L  
PATENT ASSIGNEE: HEALTH PROTECTION AGENCY; ALLERGAN INC 2006  
PATENT NUMBER: WO 200659093 PATENT DATE: 20060608 WPI ACCESSION NO.:  
2006-392966 (200640)  
PRIORITY APPLIC. NO.: GB 20054964 APPLIC. DATE: 20050310  
NATIONAL APPLIC. NO.: WO 2005GB4585 APPLIC. DATE: 20051201  
LANGUAGE: English

New single chain, polypeptide fusion protein, comprising a non-cytotoxic protease, Targeting Moiety, protease cleavage site, and translocation domain...

ABSTRACT: DERWENT ABSTRACT: NOVELTY - A single chain, polypeptide fusion protein, comprising a non-cytotoxic protease or its fragment, a Targeting Moiety, a protease cleavage site, and a translocation domain, is new. DETAILED DESCRIPTION - A new single chain, polypeptide fusion protein comprises: (a) a non-cytotoxic protease, or its fragment, where the protease or...

... 4) a complementary DNA strand of the DNA sequence; (5) a method for preparing a single-chain polypeptide fusion protein; (6) a method of preparing a non-cytotoxic agent; (7) a non-cytotoxic...

... the protease cleavage site and the translocation domain. The non-cytotoxic protease is a clostridial neurotoxin L-chain or an IgA protease. The translocation domain is the HN domain of a clostridial neurotoxin. The Targeting Moiety comprises at most 50 amino acid residues, preferably at most 40 amino...

... 72, 75, 78, 81, 84, or 87, given in the specification. Preferred Method: Preparing a single-chain polypeptide fusion protein comprises expressing the nucleic acid sequence or the DNA vector in a host cell. Preparing a non-cytotoxic agent comprises contacting the single-chain polypeptide fusion protein with a protease capable of cleaving the protease cleavage site, and cleaving the...

20/3, K/18 (Item 6 from file: 357)  
DIALOG(R) File 357: Derwent Biotech Res.  
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0339710 DBR Accession No.: 2004-12002 PATENT

New single chain polypeptides comprising clostridial neurotoxin light and heavy chains, useful as positive controls for toxin assays, or for developing vaccines against clostridial toxin - recombinant protein production via plasmid expression in host cell for use in bacterium infection vaccine

AUTHOR: SHONE C C; FOSTER K A; CHADDOCK J; MARKS P; SUTTON M J; STANCOMBE P; WAYNE J

PATENT ASSIGNEE: HEALTH PROTECTION AGENCY 2004

PATENT NUMBER: WO 200424909 PATENT DATE: 20040325 WPI ACCESSION NO.: 2004-270039 (200425)

PRIORITY APPLIC. NO.: US 241596 APPLIC. DATE: 20020912

NATIONAL APPLIC. NO.: WO 2003GB3824 APPLIC. DATE: 20030912

LANGUAGE: English

New single chain polypeptides comprising clostridial neurotoxin light and heavy chains, useful as positive controls for toxin assays, or for developing vaccines...

ABSTRACT: DERWENT ABSTRACT: NOVELTY - A single chain polypeptide comprising clostridial neurotoxin light and heavy chains, is new. DETAILED DESCRIPTION - A single chain polypeptide comprising 2 domains. The first domain is a clostridial neurotoxin light chain, or its fragment or variant, which is capable of cleaving one or more vesicle or plasma membrane associated proteins essential to exocytosis. The second domain is a clostridial neurotoxin heavy chain H-N portion, or its fragment or variant, which is capable of translocating...

... on its own. The second domain lacks a functional C-terminal part of a  
Page 63

10527411singlechainpolypeptide.txt

clostridial neurotoxin heavy chain, designated H-C, which renders the polypeptide incapable of binding to cell surface receptors that are the natural cell surface receptors to which native clostridial neurotoxin binds. The single chain polypeptide comprises any one of 70 amino acid sequences, fully defined in the specification, or its...

... to exocytosis. INDEPENDENT CLAIMS are also included for: (1) a nucleic acid molecule encoding the single chain polypeptide cited above; and (2) a nucleic acid sequence consisting of any one of 7 nucleotide...

... recombinant methods. Preferred Polypeptide: The clostridial toxin heavy chain is a botulinum or a tetanus neurotoxin heavy chain. The first domain exhibits endopeptidase activity specific for a substrate selected from one...

... syntaxin. The second domain is a clostridial toxin heavy chain H-N portion. The clostridial neurotoxin heavy chain is a botulinum neurotoxin type A or B chain. The second domain comprises: (a) the 423 N-terminal amino...

... of tetanus heavy chain; or (e) the 100 N-terminal amino acids of a clostridial neurotoxin heavy chain. The polypeptide comprises a site for cleavage by a proteolytic enzyme. The cleavage site is not present in a native clostridial neurotoxin. The cleavage site allows proteolytic cleavage of the first and second domains, and when so...

... sequence encoding the peptide. The second domain lacks a C-terminal part of a clostridial neurotoxin heavy chain designated H-C. The polypeptide further comprises a third domain that binds the...

... Acid: The nucleic acid lacks nucleotides encoding a portion designated H-C of a clostridial neurotoxin. The nucleic acid comprises nucleotides encoding residues 1-423 of a botulinum toxin type A...

... a proteolytic cleavage site. The proteolytic cleavage site is not present in a native clostridial neurotoxin. The proteolytic cleavage site is located between the first and second domains of the polypeptide...

DESCRIPTORS: recombinant single chain protein prep., fusion protein, Clostridium neurotoxin light, heavy chain, vector plasmid pET28a-mediated gene transfer expression in Escherichia coli, appl. toxin assay pos. control, recombinant vaccine, functional botulinum tetanus neurotoxin det. bacterium (23, 24)

20/3, K/19 (Item 7 from file: 357)  
DIALOG(R) File 357: Derwent Biotech Res.  
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0267930 DBR Accession No.: 2001-07684 PATENT  
Novel isolated single chain polypeptide derived from  
activatable recombinant clostridial neurotoxin useful as  
therapeutic agents, transporter molecules and adducts - single chain  
protein production for use in therapy and as a recombinant vaccine

AUTHOR: Dolly J O; Li Y; Chan K C

CORPORATE SOURCE: Irvine, CA, USA.

PATENT ASSIGNEE: Allergen-Sales 2001

PATENT NUMBER: WO 200114570 PATENT DATE: 20010301 WPI ACCESSION NO.:  
2001-218454 (2022)

PRIORITY APPLIC. NO.: US 150710 APPLIC. DATE: 19990825

NATIONAL APPLIC. NO.: WO 2000US23427 APPLIC. DATE: 20000825



LANGUAGE: English

Novel isolated single chain polypeptide derived from  
activatable recombinant clostridial neurotoxin useful as  
therapeutic agents, transporter molecules and adducts

ABSTRACT: An isolated single chain protein (I) derived from an activatable  
recombinant clostridial neurotoxin comprising a functional  
binding domain, a translocation element and a therapeutic element, is  
claimed. (I...)

DESCRIPTORS: recombinant single chain protein prep., plasmid expression,  
Clostridium botulinum recombinant vaccine, neurotoxin, therapy  
toxin bacterium gene transfer DNA sequence (Vol. 20, No. 15)

20/3, K/20 (Item 1 from file: 149)  
DIALOG(R) File 149: TGG Health&Wellness DB(SM)  
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01953358 SUPPLIER NUMBER: 66882965 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Botulinum toxin in otolaryngology: A review of its actions and  
opportunities for use.

Neuenschwander, Michael C.; Pribitkin, Edmund A.; Sataloff, Robert T.  
Ear, Nose and Throat Journal, 79, 10, 788  
Oct,  
2000

PUBLICATION FORMAT: Magazine/Journal; Refereed ISSN: 0145-5613  
LANGUAGE: English RECORD TYPE: Fulltext TARGET AUDIENCE: Professional  
WORD COUNT: 7431 LINE COUNT: 00619

... To date, these are the only FDA-approved indications. (2)  
Structure

Botulinum toxin is a neurotoxin produced primarily by  
Clostridium botulinum, an anaerobic bacterium. There are seven immunologic  
types of botulinum...

...toxin has been isolated and sequenced. (4) The toxin is synthesized as a  
weakly active, single-chain polypeptide. When it is  
exposed to a protease, it becomes fully active in the form of...  
...4)

Recovery of function  
Botulinum toxin's blockade of transmission is reversible. Recovery  
from the neurotoxin's effects is partly mediated by the cell body's  
ability to synthesize and transport... 13-24.

(4.) Simpson LL. Clinically relevant aspects of the mechanism of  
action of botulinum neurotoxin. J Voice 1992;6:358-64.

(5.) Mezaki T, Kaji R, Kohara N, et al...

20/3, K/21 (Item 2 from file: 149)  
DIALOG(R) File 149: TGG Health&Wellness DB(SM)  
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01411517 SUPPLIER NUMBER: 13359518 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Botulinum toxin: from poison to medicine.

Davis, Larry E.  
The Western Journal of Medicine, v158, n1, p25(5)  
Jan,  
1993

PUBLICATION FORMAT: Magazine/Journal ISSN: 0093-0415 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE: Professional  
WORD COUNT: 4837 LINE COUNT: 00406

... AUTHOR ABSTRACT: year continue to be poisoned with botulinum toxin -

food-borne, infantile, or wound botulism - the neurotoxin is now sufficiently understood to allow it to be used as a medicinal agent to...

...review some of the epidemiologic, clinical, and pathophysiologic aspects of botulinum toxin and how the neurotoxin may act as a poison or a medicine.

...toxins such as tetanospasmin and diphtheria toxin. [11] Type A toxin is produced as a single-chain polypeptide with a molecular weight of 150,000. [11] Later it is transformed into its active... regulatory protein that inhibits adenylate cyclase. [18] The botulinum [C.sub.2] toxin (not a neurotoxin) appears to be an ADP-ribosyltransferase enzyme. [19] Thus the botulinum neurotoxins are likely to... results from the ingestion of clostridial spores that then colonize the gut to produce their neurotoxin directly in the gut. [36] The normal gastrointestinal tract of children and adults is remarkably... 66 [8.] Middlebrook JL: Cell surface receptors for protein toxins, In Simpson LL (Ed): Botulinum Neurotoxin and Tetanus Toxin. San Diego, Calif, Academic Press, 1989, pp 95-119 [9.] Bonventre PF...

...Clark AW, DasGupta BR, Satyamorthy V: Role of the heavy and light chains of botulinum neurotoxin in neuromuscular paralysis. J Biol Chem 1987; 262:2660-2663 [13.] Sugiyama H: Clostridium botulinum neurotoxin. Microbiol Rev 1980; 44:419-448 [14.] Habermann E, Dreyer F: Clostridial neurotoxins: Handling and...